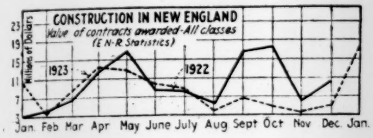
CONSTRUCTION NEWS

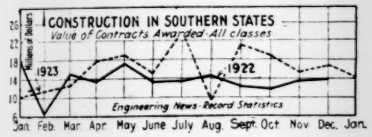
Engineering News-Record, February 21, 1924

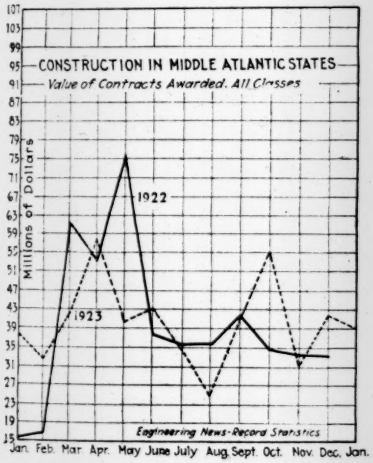
The Construction Barometer

Volume of January Construction Increased 3 Per Cent Over Preceding Month—Gain Due Mostly to Public Works—New England and Far West Active

JANUARY construction showed a gain of over 4 per cent, compared with the month preceding. While this increase was largely due to lettings of contracts for public improvements, such as water-works, sewers and excavation projects, two classifications, namely, bridges and streets and roads, fell below December levels. The greater part of the January gain was realized in New England and the Far West. The increase in January building permits in the Southern and Eastern sections of the country, points toward an unusually active building construction program, in these states, during the next month. However, measured by the money value of contracts awarded each week, construction has been steadily falling off since Feb. 1. The decline is confined principally to private projects; public work, exclusive of buildings, is about holding its own.


CONSTRUCTION IN NEW ENGLAND
Value of contracts awarded-All classes
(E.N-R Statistics)
Millions of Dollars
1923
1922
Jan. Feb Mar Apr May June July Aug Sept Oct Nov Dec. Jan.


CONSTRUCTION IN SOUTHERN STATES
Value of Contracts Awarded-All classes
Millions of Dollars
1923
1922
Engineering News-Record Statistics
Jan. Feb. Mar Apr. May June July Aug. Sept Oct Nov Dec. Jan.


CONSTRUCTION IN MIDDLE ATLANTIC STATES
Value of Contracts Awarded. All Classes
Millions of Dollars
1922
1923
Engineering News-Record Statistics
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan.

Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

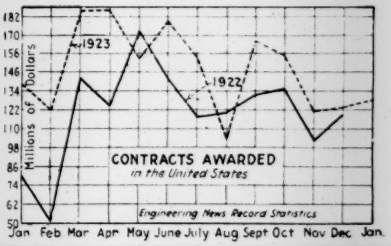
Week Ended	Public Work	Private Work	Total Contracts
Jan. 31	$8,013,000	$25,998,000	$34,011,000
Feb. 7	7,708,000	20,266,000	27,974,000
Feb. 14	7,624,000	11,004,000	18,628,000
3 weeks	$23,345,000	$57,268,000	$80,613,000

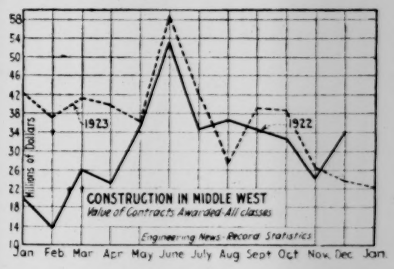
LARGE BUILDING CONTRACTS—NUMBER AND VALUE

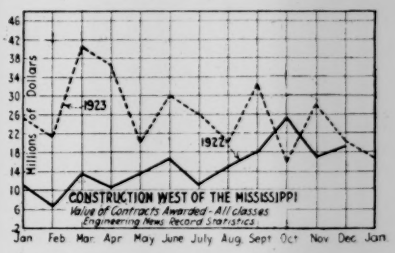
Week Ended	Public No.	Public Work	Private No.	Private Work
Jan. 31	5	$1,704,000	35	$16,119,000
Feb. 7	13	4,530,000	27	12,495,000
Feb. 14	5	1,140,000	24	8,118,000
3 weeks	23	$7,374,000	86	$36,732,000

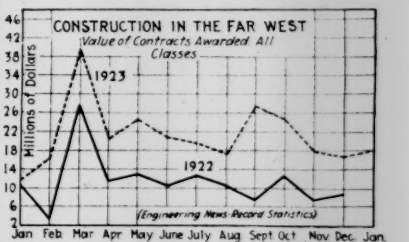
PINE TIMBERS UP—OTHER BASIC MATERIALS FIRMER

	Quoted on Feb. 21 at	Price was	On
Structurals, Pittsburgh, 100 lb....	$2.40 @2.50	$2.35 @2.50	Feb. 7
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N.Y., M.ft...	62.00	61.00	Feb. 14
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.54	.53	June 28


Millions of Dollars
1923
1922
CONTRACTS AWARDED
in the United States
Engineering News Record Statistics
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan.


Millions of Dollars
1923
1922
CONSTRUCTION IN MIDDLE WEST
Value of Contracts Awarded-All classes
Engineering News-Record Statistics
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan.


Millions of Dollars
1923
1922
CONSTRUCTION WEST OF THE MISSISSIPPI
Value of Contracts Awarded-All classes
Engineering News Record Statistics
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan.


CONSTRUCTION IN THE FAR WEST
Value of Contracts Awarded All Classes
Millions of Dollars
1923
1922
(Engineering News-Record Statistics)
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 25	Springfield, Mass.	Feb. 14
Feb. 25	New York, N. Y.	Feb. 21
Feb. 26	Brooklyn, N. Y.	Feb. 21
Feb. 27	Hartsville, S. C.	Feb. 21
Feb. 28	Burbank, Okla.	Feb. 21
Feb. 28	Buffalo, N. Y.	Feb. 7
Feb. 28	Wallingford, Conn.	Feb. 21
Feb. 28	Durham, N. C.	Feb. 21
Feb. 29	New York, N. Y.	Feb. 21
Mar. 1	Cleveland, O.	Feb. 21
Mar. 3	Wanaque, N. J.	Feb. 14
Mar. 4	Gloversville, N. Y.	Jan. 31
Mar. 4	Galva, Ill.	Feb. 21
Mar. 10	Toledo, O.	Feb. 21
Mar. 11	Kansas City, Mo. Adv. Feb. 14 and 21.	Feb. 21
Mar. 13	Kansas City, Mo. Adv. Feb. 14 and 21.	Feb. 21
Mar. 17	Black River Falls, Wis.	Feb. 21
Mar. 18	Mount Prospect, Ill.	Feb. 14
Mar. 26	Litchfield, Ill. Adv. Feb. 21.	Feb. 21

SEWERS

Feb. 23	Lima, O.	Feb. 7
Feb. 25	Richmond, Va.	Feb. 14
Feb. 25	Long Island City, N. Y.	Feb. 21
Feb. 27	Mobile, Ala. Adv. Jan. 31 to Feb. 21.	Feb. 7
Feb. 27	Charlotte, N. C. Adv. Feb. 21.	Feb. 21
Feb. 27	Cleveland, O.	Feb. 21
Feb. 28	Milwaukee, Wis.	Feb. 14
Feb. 29	Wash., D. C.	Feb. 7
Mar. 3	Syracuse, N. Y.	Feb. 14
Mar. 10	Toledo, O.	Feb. 21
Mar. 12	Jackson, Mich. Adv. Feb. 21.	Feb. 21

WASTE DISPOSAL

Mar. 18	Toronto, Ont.	Feb. 21

BRIDGES

Feb. 25	Alabama	Feb. 7
Feb. 26	Nebraska	Feb. 14
Feb. 26	Florida	Feb. 14
Feb. 27	Austin, Minn.	Feb. 7
Feb. 27	Michigan	Feb. 21
Feb. 28	Houston, Tex.	Feb. 7
Feb. 29	Illinois	Feb. 21
Mar. 3	St. Paul, Minn. Adv. Jan. 24 to Feb. 21.	Jan. 24
Mar. 4	Wilber, Neb.	Feb. 21
Mar. 10	St. Anne de Bellevue, Que.	Jan. 31
Mar. 11	Nashville, Tenn. Adv. Feb. 21.	Feb. 21
Mar. 11	Concordia, Kan.	Feb. 21
Mar. 14	Springfield, Mass. Adv. Feb. 21.	Feb. 21
Mar. 19	Sullivan, Me.	Feb. 21
Mar. 19	Phila., Pa. Adv. Feb. 21.	Feb. 21
Mar. 20	Charleston, S. D. Adv. Feb. 21.	Feb. 21
May 1	**Tientsen, North China**	**Oct. 11**

Bids Close		See Eng. News-Record
DAMS		
Mar. 1	Kingston, Jamaica — West Indies	Feb. 7
Mar. 6	Newark, N. J. Adv. Feb. 14 and 21.	Feb. 14
RAILWAYS		
Mar. 18	New Zealand	Sept. 20
Apr. 1	Indiana	Jan. 24
EXCAVATION, DRAINAGE IRRIGATION		
Feb. 25	Kingston, Pa.	Feb. 7
Feb. 26	Redwood Falls, Minn.	Feb. 14
Feb. 29	New York	Feb. 21
Mar. 5	Oroville, Calif.	Feb. 21
Mar. 11	Glens Falls, N. Y. Adv. Feb. 14 and 21.	Feb. 21
STREETS AND ROADS		
Feb. 25	Verona, Pa.	Feb. 14
Feb. 25	Alabama	Feb. 14
Feb. 25	Williamson, W. Va.	Feb. 14
Feb. 25	New Praque, Minn.	Feb. 21
Feb. 25	Cleveland Heights (Warrensville P. O.), O.	Feb. 21
Feb. 26	Plymouth, Wis.	Jan. 31
Feb. 26	Greenville, Tex.	Feb. 7
Feb. 26	Bluefield, W. Va. Adv. Feb. 7 and 14.	Feb. 7
Feb. 26	Nebraska	Feb. 14
Feb. 26	Bay St. Louis, Miss.	Feb. 14
Feb. 26	Greenville, Tex.	Feb. 14
Feb. 26	Canton, O.	Feb. 21
Feb. 26	New York, N. Y.	Feb. 21
Feb. 27	Rio Grande, Tex.	Feb. 7
Feb. 27	Nebraska	Feb. 14
Feb. 27	Akron, O.	Feb. 21
Feb. 27	Brooklyn, N. Y.	Feb. 21
Feb. 27	McKinney, Tex.	Feb. 21
Feb. 28	Kenosha, Wis.	Jan. 17
Feb. 28	Nebraska	Feb. 14
Feb. 29	Waxahachie, Tex.	Feb. 21
Feb. 29	Illinois	Feb. 21
Mar. 1	Tuscaloosa, Ala.	Jan. 31
Mar. 3	Alabama	Feb. 14
Mar. 3	Houston, Tex.	Feb. 21
Mar. 3	California	Feb. 21
Mar. 3	Cheyenne, Wyo.	Feb. 21
Mar. 3	Richmond, Ind.	Feb. 21
Mar. 3	Pine Bluff, Ark. Adv. Feb. 21.	Feb. 21
Mar. 3	Tulsa, Okla.	Feb. 21
Mar. 4	Beaumont, Tex.	Feb. 7
Mar. 4	St. Louis, Mo.	Feb. 14
Mar. 4	Ontario	Feb. 21
Mar. 4	Wabash, Ind.	Feb. 21
Mar. 5	Marshfield, Wis.	Feb. 21
Mar. 5	Freehold, N. J. Adv. Feb. 14 and 21.	Feb. 21
Mar. 6	Pocahontas, Ia.	Feb. 21
Mar. 6	Louisiana	Feb. 21
Mar. 6 and 7	Pennsylvania Adv. Feb. 14 and 21.	Feb. 21
Mar. 7	De Funiak Springs, Fla. Adv. Feb. 21.	Feb. 21
Mar. 10	Wichita Falls, Wis.	Feb. 21
Mar. 10	California	Feb. 21
Mar. 11	Washington	Jan. 10
Mar. 11	Antigo, Wis.	Feb. 7
Mar. 11	Fairport, N. Y. Adv. Feb. 14 and 21.	Feb. 14
Mar. 11	Corsicana, Tex. Adv. Feb. 14 and 21.	Feb. 14
Mar. 12	Delaware Adv. Feb. 21.	Feb. 21
Mar. 12	Salina, Kan.	Feb. 21
Mar. 18	Washington	Feb. 7
INDUSTRIAL WORKS		
Feb. 26	Greensboro, N. C.	Feb. 21
Feb. 26	West Allis, Wis.	Feb. 21
Feb. 29	Ottawa, Ont.	Feb. 21
May 21	Wellington, New Zealand	Jan. 10
BUILDINGS		
Feb. 25	Rome, N. Y.	Jan. 31
Feb. 25	Amarillo, Tex.	Feb. 7
Feb. 25	Harrison, N. Y.	Feb. 14
Feb. 25	Brooklyn, N. Y.	Feb. 14
Feb. 25	Huntington, W. Va.	Feb. 21
Feb. 25	Garfield Heights (Cleveland P. O.), O.	Feb. 21
Feb. 25	Burlington, N. C.	Feb. 21
Feb. 25	Detroit, Mich.	Feb. 21
Feb. 26	Brooklyn, N. Y.	Feb. 7
Feb. 26	Long Island City, N. Y.	Feb. 7
Feb. 26	Pawhuska, Okla.	Feb. 14
Feb. 27	Vermilion, S. D.	Feb. 7
Feb. 27	Redwood Falls, Minn.	Feb. 14
Feb. 27	Phila., Pa.	Feb. 14
Feb. 27	Huntington, W. Va.	Feb. 21
Feb. 27	Flint, Mich.	Feb. 21
Feb. 28	Phila., Pa.	Jan. 31
Feb. 28	Hannibal, Mo.	Feb. 21
Feb. 28	Mimico, Ont.	Feb. 21
Feb. 29	Morris Plains, N. J.	Feb. 14
Mar. 1	Gilbert, Minn.	Feb. 7
Mar. 1	Akron, O.	Jan. 24
Mar. 1	Chattanooga, Tenn.	Jan. 31
Mar. 1	Annandale-on-Hudson, N. Y.	Feb. 14
Mar. 1	Milwaukee, Wis.	Feb. 21
Mar. 1	Phila., Pa.	Feb. 21
Mar. 1	Durham, N. C.	Feb. 21
Mar. 1	Troy, N. Y.	Feb. 21
Mar. 3	Rhinelander, Wis.	Jan. 31
Mar. 3	Waupun, Wis.	Feb. 14
Mar. 3	Los Angeles, Calif.	Feb. 21
Mar. 5	Berlin, N. H.	Feb. 21
Mar. 5	Columbus, O.	Feb. 21
Mar. 6	Elkhart Lake, Wis.	Feb. 14
Mar. 7	Brooklyn, N. Y.	Feb. 14
Mar. 7	New York, N. Y.	Feb. 14
Mar. 10	Detroit, Mich.	Feb. 21
Mar. 11	Sumter, S. C.	Feb. 21
Mar. 11	Brooklyn, N. Y.	Feb. 21
Mar. 12	Falls City, Neb.	Feb. 21
Mar. 15	Bradford, Pa.	Feb. 21
Mar. 17	North Plainfield (Watchung P. O.), N. J.	Feb. 21
Mar. 21	Lockport, N. Y.	Feb. 21
Apr. 1	Duluth, Minn.	Feb. 7
Apr. 1	Atlantic City, N. J.	Feb. 7
May 1	Youngstown, O.	Feb. 7
FEDERAL GOVERNMENT WORK		
Feb. 23	Steel Barges—Florence, Ala. Adv. Feb. 7 to 21.	Feb. 7
Feb. 25	Dredging—Plymouth, Mass. Adv. Jan. 31 to Feb. 21.	Jan. 31
Feb. 25	Dredging—Chelsea, Mass.	Feb. 7
Feb. 26	Water Piping, etc.—Phila., Pa	Jan. 31
Feb. 27	Barrack — Puget Sound, Wash.	Jan. 31
Feb. 28	Steel Boat Hull—Huntington, W. Va. Adv. Jan. 31 to Feb. 21.	Jan. 31
Feb. 28	Dump Scow—Duluth, Minn. Adv. Jan. 31 to Feb. 21.	Jan. 31
Mar. 1	Turbines—Florence, Ala. Adv. Jan. 17 to Feb. 21.	Jan. 17
Mar. 1	Hospital Ward—Fort Sill, Okla.	Feb. 7
Mar. 3	Dredging—Galveston, Tex. Adv. Feb. 7 to 21.	Feb. 7
Mar. 3	Boats—Wash., D. C.	Feb. 7
Mar. 4	Dredging—Providence, R. I. Adv. Feb. 7 to 21.	Feb. 7
Mar. 4	Switchboard Apparatus — Florence, Ala.	Feb. 7
Mar. 10	Stone—Humboldt Bay, Calif.	Jan. 24
Mar. 11	Hospital—Pikesville, Ky. Adv. Feb. 14 and 21.	Feb. 21
Mar. 14	Sand Pump and Boiler Feed Pump—Memphis, Tenn. Adv. Feb. 21.	Feb. 21
Mar. 17	Canal—Klamath Falls, Ore. Adv. Feb. 21.	Feb. 21
Mar. 21	Reservoirs—Wash., D. C. Adv. Feb. 21.	Feb. 21
Mar. 22	Generators—Florence, Ala.	Feb. 14
Mar. 28	Ice and Refrigerating Plant —Livermore, Calif. Adv. Feb. 14 and 21.	Feb. 14
UNCLASSIFIED		
Feb. 23	Dike, Bulkhead, etc. — Plymouth, Mass.	Feb. 7
Feb. 25	Sea Wall, Dock and Sewer—New Haven, Conn.	Jan. 31
Feb. 28	Stadium—Erie, Pa.	Feb. 14
Mar. 11	Rip Rap—Scotia, N. Y. Adv. Feb. 14 and 21.	Feb. 14
Mar. 12	Sanitary Works—Binghamton, N. Y. Adv. Feb. 21.	Feb. 21
Mar. 15	Steel Hull, etc.—Portland, Ore. Adv. Feb. 14 and 21.	Feb. 14
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13
MATERIAL AND EQUIPMENT		
Feb. 25	Hoisting Machinery and Equipment—Ft. Wayne, Ind.	Feb. 7
Feb. 25	Tarvia—Two Rivers, Wis.	Feb. 21
Feb. 25	Sip Sap and Steel—New York, N. Y.	Feb. 21
Feb. 25	Asphalt Binder—New York, N. Y.	Feb. 21
Feb. 26	Supplies—Toronto, Ont.	Feb. 7
Feb. 26	Lumber, etc.—Guthrie Center, Ia.	Feb. 21
Feb. 26	Brick Castings, etc.—Ottawa, Ont.	Feb. 21
Feb. 26	Road Oil—La Crosse, Wis.	Feb. 21
Feb. 26	Truck—Kenosha, Wis.	Feb. 21
Feb. 27	Asphalt, Cement, etc.—Kingston, Ont.	Feb. 21
Feb. 28	Paving Blocks, etc.—New York, N. Y.	Feb. 21
Mar. 1	Supplies—Hamilton, Ont.	Feb. 21
Mar. 3	Gravel Pit Machines — Manitowoc, Wis.	Feb. 14
Mar. 3	Road Oil—Adrian, Mich. Adv. Feb. 21.	Feb. 21
Mar. 5	Crushed Stone, etc.—Freehold, N. J.	Feb. 21
Mar. 11	Freight Handling Equipment —Tampa, Fla.	Feb. 14
Mar. 19	Tractor—Benson, Minn.	Feb. 7

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. C., Thomasville—Making survey new water supply, nearest source 5 mi. distant. W. C. Olsen, Raleigh, engr.

O., Columbus—See "Streets and Roads."

Ill., Jonesboo—Election Feb. 28, $42,000 bonds for water works plant, tank on tower and 4- and 6-in. distribution lines. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs. Noted Jan. 17.

Ill., Monmouth—Approved bond issue of $90,000 for water works improvements, extensions, etc.

Wis., Madison — Plans rein.-con. high service reservoir with roof, 5 m.g. capacity, incl. laying feeder mains in vicinity. $125,000. L. L. Smith, supt. Engineer not selected.

Wis., Whitefish Bay—Making plans 20,000 lin.ft. 6- and 8-in. c.i. main. T. F. Buckley, Village Hall, engr.

Wis., Whitehall — See "Excavation, Drainage, Irrigation."

Neb., Hay Springs—Plans election, $20,000 bonds, to extend waterworks system. R. Gustafson, clk.

Neb., Kearny—Having plans prepared rebuilding waterworks plant. $135,000 bonds voted. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., consult. engrs. H. A. Mole, city engr. Noted Jan. 10.

Mo., Harrisonville — Plans waterworks, pumping equipment, 4 and 6 in. distribution system, etc. $35,000.

Mo., Portageville—Election soon $40,079 bonds, 2 wells, two 150 g.p.m. pumps, pump house, 21,300 ft. 4-in. and 600 ft. 6-in. c.i. pipe, 17 gate valves and boxes, 30,000 gal. tank on 100 ft. tower. A. C. Moore, 222 Industrial Bldg., Joplin, engr.

Mo., Sedalia—Making preliminary plans increasing water supply and other improvements. $200,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engr.

Ark., Little Rock—Making plans new water supply incl. pumps, motors, filters and storage reservoir. $15,000. Dickson & Watkins, 610 Boyle Bldg., engrs.

Ark., Magnolia — Having surveys made water and sewerage developments. E. T. Archer & Co., 1011 Merchants Bank Bldg., Shreveport, La., engrs

Tex., Houston—City Com. taking bids 3 wells to produce 3,000 g.p.m. $15,000. J. C. McVea, city engr.

Okla., Gore—Voted $28,000 bonds new waterworks incl. deep well, pump, tower and 9,000 ft. 4- to 6-in. c.i. pipe. Gant Baker Co., 1st Natl. Bank Bldg., Oklahoma City, engrs.

Okla., Waynoka—Voted $28,000 bonds for new 200 hp. oil engine generator set, motor driven pumps, etc. Engineer not selected.

Wash., Auburn—Election Mar. 11, $60,000 bonds extending water system. Plans include 2 m.g. reservoir and 14-in. connecting pipe.

Calif., Huntington Park (Branch Los Angeles)—Having plans prepared 1 m.g. reservoir. H. McCurdy, Pacific Electric Bldg., Los Angeles, consult. engr.

Ont., London—Utilities Bd. plans to drill new wells to increase water supply. $30,000. E. V. Buchanan, Hydro Office Bldg., engr.

Ont., Toronto—Plans to extend mains, incl. new steel and c.i. pipe, 12-24 in. diam., $1,190,042, purchase new water meters, $41,400, and replace 6 in. gate valves $11,620. R. C. Harris, city engr.

Ont., Waterford—Plans waterworks system. $40,000. W. B. Redfern, 36 Toronto St., Toronto, engr.

BIDS DESIRED

Conn., Wallingford — Feb. 28, by Bd. Water Comrs., Town Hall, 8,600 lin.ft. more or less ditches, carting and laying 18-in. Class C c.i. main, etc.; making 2 cross connection between 18-in. main and present 12- and 8-in. pipe lines. C. Nearing, chn. W. A. MacKenzie, engr. and mgr. Water Dept.

N. Y., Brooklyn—Feb. 26, by Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 2nd Ave., 37th, 42nd, Bridge, Sands, Clinton Sts., etc., here.

N. Y., New York—Feb. 26, by Bd. Water Supply, Gas & Electricity, Municipal Bldg., 36 in. mains in Jerome Ave.

N. Y., New York—Feb. 15, by Bd. Water Buckley, comr. Purch., Municipal Bldg.,

Waterworks (Continued)

c.i. pipe, special and valve box castings, valves and double nozzle fire hydrants to Dept. Water Supply, Gas & Electricity.

N. Y., New York — Feb. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Riverside Terrace, Bennett and 12th Aves., West 12th, 40th, 46th and 186th Sts.; setting fire hydrants, etc. on existing mains in Ave. A, Bway., East Bway., Riverside Dr., Bayard, James, Madison, Oak, Water, and West 153rd Sts.

N. C., Durham—Feb. 28, by City Manager, 725 hp. vertical hydraulic turbines, three 500 kw. vertical generators, one 2,000 kva., and one 1,000 kva. substation, two 5,000 g.p.m. centrifugal pumps, arranged for turbine drive, two 260 hp. horizontal hydraulic turbines, two 500 g.p.m. centrifugal pumps arranged for motor drive, 150 ft. head, two 300 hp. and two 400 hp. synchronous motors with exciters, two 5,000 g.p.m. centrifugal pumps, motor drive, 230 ft. head, switch board, sluice gates, etc. W. M. Piatt, Durham, engr.

S. C., Hartsville—Feb. 27, by City Clerk, one 500,000 gal. rein.-con. reservoir, 20 x 30 ft. brick building, 2 motor driven centrifugal pumps 1,000 g.p.m., also 4,700 ft. 6 and 12-in. c.i. main extensions, and 6,100 ft. 8, 10 and 12-in. sewer pipe extensions with manholes, flush tanks, Y branches. Ryan Eng. Co., Arcade Bldg., Columbia, engrs.

O., Cleveland—Mar. 1, by Cuyahoga Co., 12,000 ft. 6 and 8 in. c.i. mains, Impvt. 45 of Co. Sewer Dist. R. F. MacDowell, Court House, engr. Noted Nov. 1.

O., Toledo—Mar. 10, by Lucas Co., 3,050 ft. 6 in. c.i. mains in Sewer Dist. 4, Owens addition, $6,703; 11,974 ft. 6 and 8 in. c.i. mains in Sewer Dist. 9, Wernerts Park, $26,491; 13,130 ft. 6 in. c.i. mains in Sewer Dist. 4, Broadmoor and Central Gardens, $27,629; 9,943 ft. 6 in. c.i. mains in Sewer Dist. 5, Old Orchards addition, (2nd extension), $20,732. L. Boyatt, co. sanitary engr.

Ill., Litchfield — Mar. 26, by Citizens Waterworks, Inc., at office of City Attorney, improved waterworks, incl. filtration plant, equipment, dam, etc. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, engrs.; adv. E. N.-R. Feb. 21.

Wis., Black River Falls—Mar. 17, water well systems to produce from 300,000 to 500,000 gal. daily, equipped with vertical electric motors, appurtenances and auto starter. $15,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Ill., Galva—Mar. 4, by city, installing generators, two 500 g.p.m. centrifugal pumps, etc. J. D. Rankin, 5707 Glenwood Ave., Chicago, consult. engr.

Mo., Kansas City—Mar. 11, by M. H. Raming, city purch. agt., City Hall, 15,500 ft. concrete lined pressure tunnel under Missouri River and adjacent bottom lands. Fuller & Maitland, engrs. for Bd. Fire & Water Comrs., 600 Walnut St. Fuller & McClintock, 170 Bway., New York City, engrs.; adv. E. N.-R. Feb. 21.

Mo., Kansas City—Mar. 13, by M. H. Raming, city purch. agt., City Hall, 11,300 ft. and 14,000 ft. concrete lined pressure tunnels along East and West bottom lands. Fuller & Maitland, engrs. for Bd. Fire & Water Comrs., 600 Walnut St. Fuller & McClintock, 170 Bway., New York City, engrs.; adv. E. N.-R. Feb. 21.

Okla., Burbank—Feb. 28, by A. H. Riney, ch. engr., Phillips Petroleum Co., Bartlesville, earthen dam, spillway, excav., etc., 48,000 cu.yd. earth embankment, 27,000 cu. yd. rock excav., 3,000 sq.yd. riprap. $150,000.

BIDS RECEIVED

N. Y., Coney Island (Brooklyn, P. O.)—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Feb. 9, high pressure fire service mains and appurtenances in Surf and Stillwater Aves., West 6th, 8th, 10th, 12th, 15th 16th, 19th, 24th, 27th, 28th, 29th, 31st, 33rd, 35th, 36th and 37th Sts., here, from N. DeStefano, 257 Glenn Ave., Tompkinsville, S. I., $88,200. Noted Feb. 7.

W. Va., Fairmont—Filtration and purification plant from Rust Eng. Co., 311 Ross St., Pittsburgh, Pa., $137,459.

CONTRACTS AWARDED

N. C., Mooresville—Complete water and sewerage systems, to Boyd Higgins & Goforth, Realty Bldg., Charlotte, $35,000.

Ky., Elizabethtown—Filtration plant, 2 units, 1 m.g. capacity, to Mason Contg. Co., West Point, $39,000. Noted Jan. 17.

Tenn., Gallatin — Filtration plant and equipment, to Sherman Machine & Iron Co., 18-32 East Main St., Oklahoma City, Okla., $35,000.

Minn., Minneapolis — F. S. Gram, city purch. agt., 5,000 ⅝-in. corporation cocks and 4,000 ¾-in. curb cocks, to Mueller Mfg. Co., 512 West Cerro Gordo St., Decatur, Ill., $0.72 and $1.86 each respectively. Noted Jan. 31.

Kan., Russell—City 820 ton 8-in. Class A, B and D pipe and 2 tons 6-in. specials, to Natl. Cast Iron Pipe Co., 903 Commerce Bldg., Kansas City, $46,000; two 10-in. deep wells, to Well Works Mfg. Co., Garden City, $4,400; general contract (laying 36,000 ft. pipe, two pump houses, etc.) to Connor Constr. Co., Kansas City, $19,000. Noted Feb. 7.

Wis., La Crosse — Laying c.i. mains various streets, to T. E. Wooley, 148 West Ave., S., $21,967.

Wis., Madison—Motor driven deep well pump, together with all auxiliary devices for delivering not less than 1,200 g.p.m., to Aurora Pump & Mfg. Co., Aurora, Ill., $5,497. Noted Jan. 24.

Wash., Seattle — Bd. Pub. Wks., Lake Youngs Reservoir, to Jahn & Bressi, Seattle, $1,210,000. Noted Dec. 20.

Colo., Pueblo—Furnishing and laying 4 mi. 36 in. creosote wood-stave pipe, to Federal Pipe & Tank Co., 5332 24th St., N. W., Seattle, Wash., $98,000.

Sewers

PROPOSED WORK

O., Columbus—See "Streets and Roads."

O., Columbus—Making plans 1,280 ft. 8 in. sewer in Renick St. $2,759, also Cleveland Ave. storm sewer relief in Mock Rd., 6,605 ft. 12- to 30-in. pipe $27,029. R. H. Simpson, city engr.

O., New Philadelphia — Plans sanitary sewers in Bway., 7th, 6th, 5th, Howe, Cross, 3rd and 2nd Sts. et al. $67,582. G. E. Arnold, City Hall, engr.

O., Norwood—Plans 1,050 ft. 8 x 10 ft. rein.-con. sewer in Duck Creek from Edwards Rd. to Williams Ave. $90,000. A. Baker, City Hall, engr.

Ill., Elgin—Voted $700,000 bonds and takes bids about June 1, sewage treatment works $450,000, collecting sewers $270,000. M. H. Brighton, 25 Spurling Bldg., engr. Noted Jan. 24.

Wis., Whitefish Bay—Making preliminary plans storm and sanitary sewers, 16,000 lin.ft. 8 and 10-in. vitr. or concrete pipe. T. F. Buckley, Village Hall, engr.

Kan., Pittsburg—Soon takes bids sanitary sewers. $30,000. L. D. Cornelius, City Hall, engr. Noted Sept. 13.

Neb., Fremont—Having plans prepared 9 mi. sanitary sewer outfall, $100,000 bonds voted. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., consult. engrs. L. M. Roessler, city engr. Noted Jan. 24.

Neb., Omaha—Plans sanitary and storm sewers. $600,000. H. Beal, City Hall, engr.

Ark., Magnolia—See "Waterworks."

Tex., Lubbock — City Com. takes bids about Mar. 15, 30,000 ft. 18- to 24-in. tile and 27- to 78-in. concrete pipe in various streets. $100,000. J. B. Hawley and H. N. Roberts, Cotton Exch. Bldg., Ft. Worth, engrs. Noted Jan. 3 under "Streets and Roads."

Calif., Arroyo Grande—Plans sewerage system, 3½ mi. long. To exceed $25,000.

Calif., Los Angeles—Had plans prepared Main St. storm sewer system, incl. 9,000 lin.ft. double barrel rein.-con. rectangular section of 6 ft. 9 in. height and width varying from 6 ft. 5 in. to 9 ft. 7 in. for each section; 8,000 lin.ft. rectangular rein.-con. section varying from 5 to 6 ft. 7 in. high by 8 ft. 4 in. wide; 12,500 lin. ft. rein.-con. rectangular section from 3 ft. 5 in. x 5 ft. to 5 ft. x 5 ft. 3 in.; 9,800 lin.ft. non-rein. arch section from 5 ft. 11 in. x 7 ft. to 6 ft. 6 in. x 7 ft.; 11,100 lin. ft. circular non-rein.-con. from 60 to 70 in.; 59,000 lin.ft. rein.-con. pipe 24 to 66 in.; 23,000 lin.ft. cement pipe 12-21 in.; 20,000 lin.ft. cement pipe sanitary sewer, 6 to 12 in.; 787 catch basins; 179 manholes. From $2,500,000 to $3,000,000. J. A. Griffin, city engr.

Calif., Petaluma—Having surveys made complete sewerage system. To exceed $25,000. Howe & Peters, 24 California St., San Francisco, engrs.

Ont., Fort Erie — Plans sewers in 33 streets north of Garrison Rd. $100,000.

BIDS DESIRED

N. Y., Long Island City—Feb. 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Cooper Ave., Market, 85th, 77th and 25th Sts.

N. C., Charlotte—Feb. 27, by Bd. Comrs., sewers and sewage treatment plant. J. Firth, city engr.; adv. E. N.-R. Feb. 21.

S. C., Hartsville—See "Waterworks."

Fla., De Funiak Springs — See "Streets and Roads."

O., Cleveland—Feb. 27, by Cuyahoga Co., 16,000 ft. 8- to 27-in. vitr. tile and 3,200 ft. 30 and 42 in. brick, segmental block or rein.-con. sewers, Impvt. 55 of Co. Sewer Dist. R. F. MacDowell, Court House, engr.

O., Toledo—Mar. 10, by Lucas Co., 9,405 ft. 6- to 15-in. vitr. pipe in Sewer 84 Old Orchards 2nd extension, $25,310; 15,298 ft. 6- to 15-in. in Sewer 89, Broadmoor and Central Gardens, $35,790; 3,850 ft. 6 and 8 in. in Sewer 95, Owens addition, $10,161; 14,232 ft. 6- to 12-in. in Sewer 97, Wernert Park, $50,778. L. Boyatt, co. sanitary engr.

Mich., Jackson—Mar. 12, by City clerk, constructing drainage sewer and low pressure pipe, also furnishing one motor driven centrifugal pumping unit complete; adv. E. N.-R. Feb. 21.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Feb. 11 sewers in (1) 115th St. (2) 85th Rd. (3) Way Ave. (4) Palmetto St., from Tunnell Constr. Co., (1a) $73,915; J. Gallo, 203 Division St., Brooklyn, (1b) $58,953 (4) $3,775; D. A. Gross, (2) $2,364; J. D. Bridgidia (3a) $18,627; Duit, Inc., (3b) $16,946. Noted Feb. 7.

Calif., Pasadena—Sewer, etc., in Arroyo Blvd., incl. 6,500 lin.ft. 2 in. vitr. sewer, 63 manholes, average depth 6 ft., from de Waard & Cobham, Granger Bldg., San Diego, $33,500. Noted Dec. 27.

CONTRACTS AWARDED

Md., Baltimore—Mayor and City Council, City Hall, vitr. sewer pipe for Highways Dept., to Baltimore Clay Products Co., 2113 West Lafayette Ave., $28,122. Noted Feb. 7.

N. C., Moresville—See "Waterworks."

La., Baton Rouge—Comn. Council, 4,600 ft. 10-24 in. vitr. clay sewer and 520 ft. 36 in. c.i. sewers in various streets, to J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga. $51,092. Noted Jan. 3.

O., Cleveland—Cuyahoga Co., 17,000 ft. 8- to 60-in. vitr. or rein.-con., also 8,000 ft. 30- to 60-in. brick or concrete sewer in State Rd. (Impvt. 10), to Gantose Constr. Co., Columbia Bldg., $297,767. Noted Feb. 14.

Mich., Royal Oak—Sanitary main sewer in Campbell Rd., 14,115 ft. 12-30 in. concrete pipe, to Liberty Constr. Co., Detroit Savings Bank Bldg., Detroit, $97,362.

Ill., Mt. Morris—For 10,000 ft. sanitary sewers and 2 disposal plants, to Craig Constr. Co., Des Moines, Ia., $56,000. Noted Jan. 17.

Minn., Minneapolis—See "Material and Equipment."

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 505 ft. 10- to 12-in. vitr. clay sewer in Clifton Heights Sewer 4, to Riley Bros. Constr. Co., International Life Bldg., $2,251; 6,505 ft. 8- to 27-in. vitr. clay and 1,725 ft. 36- to 66-in. concrete sewer in Glaise Creek Sewer 19, also 2,100 ft. 12- to 24-in. vitr. clay sewer in Glaise Creek Dist. Sewer 24, to Hogan Contg. Co., 2120 Harris Ave., $47,025 and $7,790 respectively; 1,065 ft. 8- to 21-in. vitr. clay sewer in Glaise Creek Dist. Sewer 23, to Higgins-Wall-Dyer Constr. Co., International Life Bldg., $3,725. Noted Feb. 14.

Mo., University (St. Louis P. O.)—For 2,400 ft. vitr. clay and segmental block sewer in Colby Ave., also 2,650 ft. 12- to 36-in. vitr. clay and 575 ft. 42 in. segmental block sewer in North Pennsylvania Ave., to Stolle-Moll Constr. Co., 5243 Delmar Blvd., St. Louis, $20,921 and $20,706 respectively; 3,161 ft. 12- to 36-in. sewer in River Des Peres Sect. A-2, 797 lin.ft. 10- to 12-in. vitr. clay sewer in Dist. Sewer 29, also 4,475 lin.ft. 10- to 24-in. vitr. clay sewer in Dist. Sewer 26, to A. Lewald, 1219 Amherst Pl., St. Louis, $26,147, $1,703 and $9,673 respectively. Noted Jan. 31.

Okla., Chickasha—Outfall sewer and disposal plant, incl. Imhoff tank, 4,350 ft. 18- to 21-in. vitr. clay pipe, one 750 g.p.m. and one 1,000 g.p.m. motor driven pump, to Gibson & Mitchell, Pauls Valley, $43,206. Noted Jan. 10.

Okla., Tulsa — Sanitary sewers with laterals, connections, etc., in Dists. 199 and 201, to Comstock-Smedley Co., 432 Ia. Bldg., $1,478 and $36,468 respectively. Noted Jan. 31.

Calif., Los Angeles — See "Streets and Roads."

Waste Disposal

BIDS DESIRED

Ont., Toronto — Mar. 18, by W. W. Hiltz, mayor, City Hall, 2 story and basement, 50 x 80 ft., waste disposal plant, rein.-con., brick and steel, plain foundation, Wellington St. W. $150,000.

Bridges

PROPOSED WORK

North Carolina — State Hy. Comn., Raleigh, rejected bids rein.-con., bridge over Yadkin River, $286,660. Will re-advertise soon. C. M. Upham, state highway comr. Noted Feb. 14.

O., Cincinnati—Plans replacing existing through truss bridge with new plate girder bridge, etc., over Mill Creek, Gest St. $34,749. F. Krug, City Hall, engr.

Kan., Oskaloosa—Jefferson Co. plans one 220 ft. steel truss span, 20 ft. wide, Federal Aid Project 175, Sect. A, near Perry. R. C. Ham, co. engr.

Neb., Omaha—Douglas Co., F. Dewey, clk., and Saunders Co. (Wahoo) plan bridge over Platte River. $155,000.

Ark., Cody (Hulpert, P. O.)—Lee Co. (Marianna) soon takes bids bridge over St. Francis River, here, 3 steel and concrete spans. Noted Sept. 20.

Tex., Amarillo — Atchison, Topeko & Santa Fe. Ry. System, 80 East Jackson Blvd., Chicago, having sketches made steel and rein.-con. bridge across Canadian River, here, sixteen 119 ft. spans in addition to 4 now in use. $1,000,000. A. R. Mitchell, Chicago and M. C. Blanchard, Amarillo, c/o owner, engrs.

Ont., London—Middlesex Co. plans to expend $35,000 on concrete culverts and bridges and steel bridges on concrete abutments. C. Talbot, co. engr.

BIDS DESIRED

Me., Sullivan — Mar. 19, by State Hy. Comn., Augusta, superstructure of bridge over Taunton River between here and Hancock, 1,470,000 lb. steel not incl. swing span machinery. P. D. Sargent, ch. engr. Noted Feb. 1, 1923.

Mass., Springfield—Mar. 14, at office of City Clerk, furnishing, fabricating and delivering, but not incl. erecting, of structural steel of 66-ft. span bridge on Berkshire Ave. over Boston & Albany R.R. R. P. Marsh, supt. Dept. Streets and Eng.; adv. E. N.-R. Feb. 21.

Pa., Phila.—Mar. 19, by Delaware River Bridge Joint Comn., Room 806 Widener Bldg., constructing cable bands, suspenders, and hand ropes, Contr. 13, and constructing suspended structure, Contr. 14, of bridge over Delaware River connecting city with Camden, N. J.; adv. E. N.-R. Feb. 21.

Delaware—See "Streets and Roads."

S. C., Charleston — Mar. 20, at office Sanitary & Drainage Comn. of Charleston Co., 39 Broad St., bascule span superstructure of bridge over Ashley River, State Highway 6; adv. E. N.-R. Feb. 21.

Tenn., Nashville—Mar. 11, by City Clerk, repairing and strengthening 2 steel and concrete bridges over Cumberland River at Sparkman and Jefferson Sts. $300,000. Freeland, Roberts & Co., Independent Life Bldg., consult. engrs.; adv. E. N.-R. Feb. 21. Noted Dec. 20.

Michigan—Feb. 27, by State Hy. Dept., Lansing, one 175 ft. truss span bridge, 364,000 lb. steel, Newaygo Co. G. C. Dillman, ch. engr.

Illinois—Feb. 29, by Dept. Pub. Wks. and Buildings, Div. of Highways, Springfield, 68 bridges in various counties, 18,814 cu.yd. concrete, 2,183,400 lb. structural steel. C. H. Older, ch. highway engr.

Kan., Concordia — Mar. 11, by Clerk Cloud Co., three 50 ft. span deck girder or 130 ft. arch, 24 ft. roadway, Federal Aid Project 197, near Ames. B. E. Thurston, co. engr.

Neb., Wilber—Mar. 4, by Clerk Saline Co., 5 bridges on Federal Aid Project 161, one 100 ft. and two 50 ft. concrete pony trusses, one 22 ft. I beam bridge, 45.9 cu. yd. Class A concrete, 48.9 sq.yd. gravel, etc., one 100 ft. pony truss bridge, 292.4 cu.yd. concrete, 216 sq.yd. gravel, etc, one 30 ft. I beam bridge, 79.18 cu.yd. Class A concrete, 65.5 sq.yd. gravel, 1,475 lb. structural steel, etc., and one 22 ft. I beam bridge, 72.55 cu.yd. Class A concrete, 49 sq.yd. gravel, 1,475 lb. structural steel. R. L. Cochrane, Lincoln, state engr.

Tex., Houston—See "Streets and Roads."

BIDS RECEIVED

Pa., Phila. — Delaware River Bridge Joint Comn., Room 806 Widener Bldg., constructing Phila. and Camden approach piers of bridge over Delaware River between here and Camden, N. J.: Phila. approach piers, Contr. 11, from Frederick Snare Corp., 114 Liberty St., New York City, $231,000; Camden approach piers, Contr. 12, from H. G. Ley & Co., 716 Raymond St., Phila., $271,863. Noted Jan. 17.

Illinois—See "Streets and Roads."

California — State Hy. Comn., Sacramento, from John Simpson & Co., 701 Antonio St., Los Angeles, bridge over Cedar Creek, 18 mi. east of Gilroy, Santa Clara Co., 560 cu.yd. concrete $19.56, 370 cwt. reinforcing steel $7, bridge over North Fork Pacheco Creek, 21 mi. east of Gilroy, 675 cu.yd. concrete $26.66, 980 cwt. reinforcing steel $7, etc., total $42,234. Noted Jan. 17.

CONTRACTS AWARDED

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Bayou Vidal Bridge on Federal Aid Project 134, Madison and Tensas Parishes, and Bayou Macon Bridge on Federal Aid Project 135 B, Madison and Richland Parishes, to Meyer-Greenwald Constr. Co., Monroe, $13,-924 and $41,261 respectively; Bayou Vermillion Bridge on Federal Aid Project 136 B, Lafayette Parish, to Banta & Mutersbaugh, Lake Charles, $22,628. Noted Jan. 17.

Tennessee—See "Streets and Roads."

North Carolina — State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 472-B, Vance Co., to Rhyne & Kitchen, Blacksburg, $38,973; on State Project 720, Caldwell Co., to Berry-Fortune Constr. Co., Hickory, $36,295. Noted Feb. 14.

O., Cambridge—Dept. Highways and Pub. Wks., Columbus, 500 ft. bridge, 29 ft., over Wills Creek and tracks of Baltimore & Ohio R.R. and Pennsylvania R.R., on Dewey St., here, to Hickey Bros., 520 Emerich St., Columbus, billet steel $174,-360. Noted Feb. 7.

S. D., Kankton — Meridian Highway Bridge Co., J. B. Gurney, pres., concrete approach and slab on truss spans, incl. 2,230 cu.yd. concrete, 282,000 lb. reinforcing and 80,000 lb. structural steel, 4,580 sq.yd. asphalt pavement, 1,050 sq.yd. brick pavement, one frame office building and lights for entire bridge over Missouri River, to F. T. Leeder, 619 5th St., Sioux City, Ia., $75,470, and Monarch Eng. Co., Falls City, Neb., $37,910. Noted Jan. 17.

Tex., Robert Lee—Coke Co. 237 ft. bridge over Oak Creek, one 70 ft. steel span, concrete approaches and piers, to Hannah Constr. Co., Box 994, Waco, $20,035. Engrs. est $26,000. Noted Jan. 24.

Washington—State Hy. Dept., Olympia, bridge over Yakima River, Benton Co., two 180 ft. through riverted steel spans, etc., to Union Bridge Co., Central Bldg., Seattle, $49,000. Former contract rescinded. Noted July 26.

Oregon—See "Streets and Roads."

Dams

PROPOSED WORK

Ill., Aurora — Plans dam across west branch of Fox River. $25,000.

BIDS RECEIVED

Pa., Phila.—Dir. Pub. Wks., Room 216, City Hall, overflow dam 1,200 ft. long, maximum height 35 ft., in southern section of Fairmount Park across Schuylkill River, 12,000 cu.yd. earth and 8,000 cu.yd. rock excav., 35,000 bbl. cement, etc., from Seeds & Durham, 6320 Wissahickon Ave., $604,-650. Noted Jan. 31.

CONTRACTS AWARDED

N. Y., Kingston—Bd. Water Comrs., City Hall, addition to Coopers Lake Dam, 2,500 cu.yd. earth fill, 410 cu.yd. rein.-con., etc., to R. B. Kennedy Co., Inc., Utica. Noted Dec. 27.

Railways

PROPOSED WORK

Oklahoma—Atchison, Topeka & Santa Fe R.R. Co., 406 Delaware St., Topeka, Kan., plans 9 mi. extension from Marland to Tonkawa oil fields, 75 lb. rails, standard gauge track, chat and macadam ballast, etc. R. A. Rutledge, ch. engr.

California, Nevada and Utah—Western Pacific R.R. Co., Mills Bldg., San Francisco, appropriated $6,000,000 for 1924 improvements, portion of which will finance reballasting and laying new tracks on line between Oakland, Calif., and Salt Lake City, Utah, replacing track on Loyalton branch with 70 lb. rail, depots, shops, yards, etc, at various points in California, Nevada and Utah; steel and concrete bridges to replace present wooden structures at Oroville, Calif., to exceed $25,000. J. W. Williams, ch. engr.

Ontario — York Twp., 40 Jarvis St., Toronto, plans 2 mi. double track street railway on Oakwood and Eglinton Aves., Rogers and Weston Rds., Toronto. $300,-000. Owners propose having same built by Hydro Electric Power Comn. of Ontario, 110 University Ave., Toronto, and operated by City of Toronto.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. Y., Buffalo—Plans dredging Buffalo River and Cazenovia Creek from Babcock to Seneca Sts., 800,000 cu.yd. excav. To exceed $150,000. C. E. P. Babcock, Municipal Bldg., engr.

Ky., Hartford—Drainage Comn. plans Howard Ditch, 25,000 ft. long, $28,500. S. L. King, c/o Comn., engr.

Wis., Barron—Barron Co. Drainage Bd., C. Cockran, secy., Turtle Lake, plans 1,200 acres tile drainage and 4 mi. open ditch drainage. $25,000. J. G. D. Mack, State Capitol Bldg., Madison, engr.

Wis., Whitehall—Trempealeau Dr. Dt. W. S. Wadleigh, secy., Gatesville, making plans additional tile and open ditch drainage and improvements to present ditches and pumping plant. $33,000. J. D. Mack, State Capitol, Madison, engr.

Calif., Long Beach—City rejected bids dredging Channels 2 and 3. Plans to dredge deeper than provided under last call for bids. Noted Jan. 24.

New York—Feb. 29, by J. A. Delaney, comr. Docks, Pier "A," foot of Battery Pl., New York City, dredging channels, constructing dikes, and placing fill on west island in connection with improvement of Jamaica Bay, Queens Boro, Contr. 1818-B and C. Noted Jan. 24.

N. Y., Glens Falls—Mar. 11, by R. A. Fuller, comr. Canals & Waterways, Albany, repairing Glens Falls feeder, also improving New York State Canals; adv. E. N.-R., Feb.

Calif., Oroville—Mar. 5, by Directors of Oroville-Wyandotte Irrigation Dist., ditch, 600 cu.yd. earth excav., 1,200 cu.yd. loose or soft rock excav., 4,200 cu.yd. solid rock excav. S. J. Norris, Oroville, engr.

BIDS RECEIVED

Minn., Minneapolis—Bd. Park Comrs., City Hall, Feb. 7, dredging in Powderhorn Lake, 140,000 cu.yd., from LaCrosse Dredging Co., 405 Plymouth Bldg., $0.35 per cu. yd. Noted Jan. 10.

CONTRACTS AWARDED

N. Y., New York — Superintendent Bd. Educ., 500 Park Ave., excavating and removing earth and rock from property adjoining P. S. 30, East 141st St., to T. DeRoma, 33 Evelyn Pl., $19,677. Noted Jan. 24.

Calif., Long Beach—City, dredging 2,-000,000 cu.yd. in waterway between Recreation Park and Alamitos Bay, to United Dredging Co., Central Bldg., Los Angeles, $0.1618 cu.yd. Noted Feb. 7.

Streets and Roads

PROPOSED WORK

Vermont — Dept. Highways, Montpelier, plans grading, gravel surfacing, etc., 1.25 mi. Crystal Lake Rd., 21 ft., in Sutton, Federal Aid 55A, 3.1 mi. Newport-North Stratford Rd., 21 ft., in Charleston; grading and concrete paving 1.2 mi. Fairhaven-Castleton Rd., 18 ft., in Fairhaven; Federal Aid 50, 0.75 mi. Barre-Montpelier Rd., 18 ft., in Berlin, Federal Aid 56A; bituminous macadam paving 2.25 mi. road in Georgia, Federal Aid 52; 330-ft. deck plate girder bridge and 1,700 ft. roadway, gravel surfaced, project known as Gassets Overpass on Proctorsville Gulf Rd., in Chester, Federal Aid 54A. T. W. Dix, ch. engr.

N. Y., Cohoes—Soon takes bids grading, widening, laying sidewalks, repaving, etc., 0.7 mi. Columbia St., 30 ft. $40,000.

N. Y., Elizabethtown—Essex Co. voted $38,730 bonds graveling 16 mi. roads, 20 ft.

N. Y., Schenectady—Had plans prepared widening 0.7 mi. Lower State St., 75 ft. roadway, 14 ft. sidewalks on either side, $100,000. Address City Planning Comn.

N. Y., Tonawanda—Making plans repaving Main St. and eliminating grades at junction of Main, Niagara and Young Sts. To exceed $35,000. T. W. Barrally, City Hall, engr.

N. J., Asbury Park—Plans paving Bangs Ave. and Emory St. $40,000. N. Rogers, Asbury Park, engr.

W. Va., Clarksburg—Plans paving and underway crossing at West Adamston, $50,000. Council soon takes bids paving 53 blocks, (separate contract). T. S. Long, city engr.

North Carolina—State Hy. Comn., Raleigh, plans improving roads (**S. P. means State Project**) grading 4 mi. S. P. 975, Madison Co., $25,000; grading and gravel surfacing 2.17 mi. S. P. 390, Robeson Co., $30,000; grading and surfacing 13 mi. S. P. 394, Roberson Co., $78,000; sand asphalt surfacing 8 mi. S. P. 318, Brunswick Co., $94,000; grading, concrete or asphaltic paving 11 mi. S. P. 330, Columbus Co., $363,000; hard surfacing 12 mi. old S. P. 316, Brunswick Co., $250,000. C. M. Upham, state highway comr.

North Carolina — State Hy. Comn., Raleigh, rejected bids improving roads (**S. P. means State Project**) grading and concrete paving 12.5 mi. S. P. 720, Caldwell Co., $453,528; grading and gravel surfacing 5.33 mi. S. P. 714, Ashe Co., $98,762; grading and concrete or asphaltic paving

Streets and Roads (Continued)

6.85 mi. S. P. 111, Camden Co., $144,200; grading and waterbound macadam paving 11.5 mi. S. P. 106-B, Bertie Co., $151,721. Will readvertise soon. Noted Feb. 14.

N. C., Asheville—Plans paving various streets. $150,000.

N. C., Morgantown — Voted $150,000 bonds to pave principal streets now unpaved. Noted Jan. 24.

Tenn., Nashville—City soon takes bids paving Belcourt, Villa, Capers, 16th and Maxwell Sts., 28th, Bates and Shelby Aves, W. W. Southgate, City Hall, engr. Noted Jan. 17.

O., Columbus — Making plans grading, laying necessary water services and sewers and paving 7,757 ft. Breevoort Rd., 22nd St., Pomola and Ardmore Aves., 24 ft., brick $119,961, asphalt $97,059; 1,193 ft. alleys north of 6th, 7th and Oakland Aves., 16 ft., brick $7,253, concrete $6,899; 1,987 ft. alley north of Norwich Ave. and alleys west of Michigan and Harrison Aves., 20 ft., brick $15,534, concrete $13,718; 126 ft. 2nd alley west of High St., 15 ft., brick $743, concrete $656; 362 ft. alley north of 11th Ave., 22.5 ft., brick $3,099, concrete $2,741; 3,130 ft. Ann St., 40 ft., brick $58,636, asphalt $50,251; 451 ft. Wendell Ave., 20 ft., brick $7,930, asphalt $6,226; 4,187 ft. Rich St., 46 ft., asphalt $33,938; widening 1,908 ft. Grant Ave., from 32 ft. to 44 ft., asphalt $36,494. R. H. Simpson, city engr.

O., Steubenville—Jefferson Co. plans resurfacing Richmond-Knoxville Rd., $49,961, also Dillonvale-Rayland Rd., $40,220, both macadam with tar top. V. N. Penn, Steubenville, engr.

O., Toledo — Lucas Co. plans grading, curbing and concrete paving Barrows St. Impvt. 215, Balkan Pl. Impvt. 216, Brussels St. Impvt. 217, Mansfield St. Impvt. 219, Talbot St. Impvt. 218. A. E. Schmitt, clk. This corrects report in Jan. 24 issue.

Mich., Detroit—Having plans prepared paving with 3 in. sheet asphalt on 6 in. concrete 2,300 sq.yd. Louis Ave. $11,320, and 3,900 sq.yd. Genoa Ave. $19,740; 3½ in. sheet asphalt on 8 in. concrete, on 2,800 sq.yd. Byron Ave., $15,990, 2,100 sq. yd Hendrie Ave. $12,030, 2,600 sq.yd. Lakewood Ave. $15,840, 1,100 sq.yd. Springwells Ave. $6,780, 9,300 sq.yd. Dequindre St. $55,890, 2,500 sq.yd. Lonyo Rd. $14,760, 6,100 sq.yd. Lakeview Ave. $36,070, 990 sq.yd. Grove Ave. $5,775, 400 sq.yd. Domine Ave. $2,410, 3,000 sq.yd. Eason Ave. $17,160, 2,900 sq.yd. Atkinson Ave. $16,980, 1,400 sq.yd. Brighton Ave. $8,400, 3,600 sq.yd. Savery Ave. $21,180, 1,300 sq.yd. Wilson Ave. $7,810 and 18,600 sq.yd. Davison Ave. $111,300. G. Jerome, city engr.

Ill., Sycamore—Plans paving streets 9,520 sq.yd., 7-in. concrete, 7,148 ft. curb and gutter, etc. $40,145. W. M. Hay, engrs. for Bd. Local Impvts.

Ill., Waukegan—Soon takes bids 60,000 sq.yd. 7-in. rein.-con. paving with curbs and gutters, also 15,000 sq.yd. brick on concrete. H. J. Douthitt, City Hall, engr.

Wis., Eau Claire—Had plans prepared 21,415 sq.yd. concrete paving, 11,500 lin.ft. integral concrete curbing, 6,216 cu.yd. earth excav. on 1st Ave., Babcock, Chestnut, Madison, Hogeboom, Farwell and Lake Sts. $50,000-$60,000. J. T. Hurd, City Hall, engr.

Wis., Janesville—Making plans paving approximately 5 mi. streets, 25 ft., one course rein.-con., concrete curbs and gutters. $50,000. C. V. Kirch, City Hall, engr.

Wis., Kilbourn — Election soon, $48,000 bonds, concrete paving, curbing and guttering Eddy, La Crosse and Washington Sts., 25 ft. $48,000. E. B. Parsons, Jefferson, engr.

Wis., Madison—Plans paving Hillington Way, Norwood Pl., Van Hise, Kendall, Chamberlain, Elm, Washington, Rogers, Jenifer, Spaight, Ingersoll, Rutledge, Waubesa, Walnut, Welch, Center, Commercial, Schurz, Ryan, Fair View, Milwaukee, Farwell, 7th, Dayton, 2nd, Corry and Doty Sts., 25- to 30-ft., vitr. brick, asphalt or concrete. $83,566. H. C. Buser, clk. Engineer not selected.

Ia., Anamosa — Plans paving, etc., 12 blocks. $40,000. D. Stevens, clk.

Kan., Pittsburgh—Soon takes bids grading and surfacing with vitr. brick on concrete, concrete curbing and guttering on 40 blocks, Tucker Ave., Elm, Walnut, Carlton and Olive Sts. $160,000. L. D. Cornelius, city engr.

Kan., Topeka — W. S. Hancock, comr. streets & pub. impvts., takes bids about Mar. 1, paving 43 blocks asphaltic concrete on 7 in. concrete, also 20,000 sq.yd. 6 in. concrete alley paving. $240,000. W. E. Baldry, City Hall, engr. Noted Jan. 17.

South Dakota—State Hy. Comn., Pierre, will let contracts in March or April grading 9.5 mi. Federal Aid Project 169, Pennington Co.; 17.1 mi. Federal Aid Project 162, Haakon Co.; 12 mi. Federal Aid Project 179, Dewel Co.; 44 mi. Federal Aid Project 173, Faulk, Spink and Edmund Counties; 10.3 mi. Federal Aid Project 167 A, Bon Homme Co.; 6.9 mi. Federal Aid Project 178, Bon Homme Co. F. D. Hudgins, ch. engr.

Ark., Marianna—Lee Co. soon takes bids hard surfacing 50 mi. roads, 18 ft., north to St. Francis Co. line, south to Phillips Co. line and northwest to Wheatley.

Ark., Pine Bluff — Making preliminary plans improving 35 blocks from Olive to Cherry and 6th to Barraque Sts., grading and paving with rein.-con. or asphaltic concrete, concrete curbs and gutter.

Ark., Rogers—Soon takes bids improving 4,000 ft. streets, 28 ft., in business section, incl. grading, surfacing with asphaltic concrete or rein.-con., concrete curbs and gutters.

Tex., Abilene—Taylor Co. making plans State Highway 30, 30 mi. long. $995,000 includes bond issue and Federal and State Aid. W. A. Riney, Abilene, engr.

Tex., Alice—Jim Wells Co. soon takes bids crushed rock, caliche base with 1½ in. bituminous topping on 14.3 mi. highway from point 2,000 ft. south of Nueces River to point 10 mi. north of here, 20 ft. L. W. S. Mantel, co. engr.

Tex., Archer City—Archer Co. election Feb. 23, $300,000 bonds, highway improvement in Rd. Dist. 2. Federal Government will appropriate $300,000 if bonds are voted. E. M. Hooper, co. judge.

Tex., Burkburnett—Making plans gravel paving, concrete curbing and guttering on 20 blocks. $45,000. Montgomery & Ward, City Natl. Bank, Wichita Falls, engrs.

Tex., Columbus—Colorado Co. plans 21.2 mi. State Highway 3, 18 ft., 6 in. concrete and 1 in. rock asphalt topping. $650,000. B. H. Faber, co. engr.

Tex., Denison—Making plans paving 18 Blocks Mirick Ave., miscellaneous types of standard paving, also paving alleys in blocks between Houston and Eddy Sts. $60,000. C. E. Hayden, city engr.

Tex., Houston — Making plans paving Ashland, Pecore and Cumberland Sts. in Houston Heights, miscellaneous standard paving, $25,000; paving West Capitol Ave. from Capitol Ave. Bridge to Henderson St., bituminous types, $25,000. J. C. McVea, city engr.

Tex., Lubbock—Making plans paving 99 blocks, Bway., Ave. K, Main, 7th, 10th and 16th Sts., various types. $250,000. Jno B. Hawley and H. N. Roberts, Cotton Exch. Bldg., Ft. Worth, Engr. Noted Jan. 3.

Tex., Roscoe—Plans prepared paving 6 blocks Main St., 8 in. rein.-con. or 3 in. brick on 5 in. concrete. $25,000. Montgomery & Ward, City Natl. Bank, Wichita Falls, engrs.

Tex., Sanderson — Terrell Co. making plans gravel surfacing 12½ mi. State Highway 12, 18 ft., from here, east. J. Stovall, Sanderson, engr.

Okla., Comanche — Voted $70,000 bonds grading and concrete paving 7 blocks Oak, Church, 1st and 2nd Sts. V. V. Long & Co., 1309 Colcord Bldg., Oklahoma City, engrs.

Wash., Hoquiam — Making plans and takes bids about Mar. 7, concrete paving and concrete sidewalks on Emerson Ave. et. al. $100,000. W. L. Lovejoy, Hoquiam, engr.

Wash., Seattle—King Co. rejected bids Jan. 21, constructing Quartermaster-Dockton Rd. Will readvertise. $49,500. T. R. Beeman, co. engr. Noted Feb. 7.

Calif., Richmond — Had plans prepared improving portion 34th, 35th and 36th Sts. between Macdonald Ave. and Richmond-Pullman tract, etc., incl. grading, 8 in. macadam, concrete curbs, walks, gutters, etc. To exceed $40,000. Noted Feb. 14.

Calif., Riverbank—Plans paving various streets. To exceed $25,000. Engineer not selected.

Calif., San Diego—Had plans prepared improving Mission Blvd., 49,443 sq.yd. 5 in. concrete, 19,097 lin.ft. cement curbing. F. A. Rhodes, City Hall, city engr.

Ontario—Provincial Government, Northern Development Branch, plans 125 mi. trunk road from either North Bay or Sturgeon Falls to Cobalt, gravel road. $600,000. F. R. Fullerton, Parliament Bldg., Toronto, engr.

Ont., Chatham — Kent Co. plans 11,000 sq.yd. concrete pavement on Creek Rd. $35,000. W. H. McGeorge, Chatham, engr.

Ont., Kingston—Having plans prepared 30,000 sq.yd. asphalt pavement on various streets. $100,000. H. S. Dick, city engr.

Ont., Leamington — Having plans prepared concrete pavements. $40,000. Prices wanted on all materials. R. M. Selkirk, city engr.

Ont., London—Middlesex Co. plans to expend $210,000 for maintenance and construction of gravel and macadam roads, also 25,000 sq.yd. concrete on Sarnia Rd. C. Talbot, co. engr.

Ont., Ottawa—Bd. Control takes bids early in spring, grading, sidewalks and asphalt pavements on Rideau St. approaching Cummings Bridge. $40,000. A. F. Macallum, city engr.

Ont., Port Perry — Ontario Co. plans permanent pavements on main streets, 15,000 sq.yd. asphalt or concrete. $50,000. D. J. Keene, Whitby, engr.

Ont., Toronto — Toronto & York Rds. Comn., 57 Adelaide St. E., plans 6 mi. bituminous macadam roads. $150,000. E. A. James, 57 Adelaide St. E., engr.

BIDS DESIRED

N. Y., Brooklyn—Feb. 27, by E. Riegelmann, boro pres., Boro Hall, permanent asphalt paving Delamere Pl., Empire Blvd., Ave. L, Banker, East 9th, Osborn, Van Dam, West 8th, 43rd, 63rd, 68th and 76th Sts., Hegeman, Hopkinson, Riverdale and 11th Aves.; curbing and flagging Delamere Pl., Empire Blvd., East 9th and 68th Sts.; grading, curbing and flagging 71st and 76th Sts.; curbing 81st St.

N. Y., New York — Feb. 26, by Dept. Plant & Structures, Municipal Bldg., westerly footwalk flooring on steel approaches of Manhattan Bridge. $25,000.

N. J., Freehold—Mar. 5, by Bd. Freeholders Monmouth Co., reconstructing 2.15 mi. Palmer Ave., Rd. 73, Sect. 1, rein.-con. Throckmorton & Morris, 202 Bway., Long Branch, civil engrs.; adv. E. N.R. Feb. 21.

Pennsylvania—Mar. 6 and 7, by State Hy. Dept., Harrisburg, constructing 48 mi. roads in 24 counties; adv. E. N.-R. Feb. 21.

Delaware—Mar. 12, by State Hy. Dept., Dover, constructing 1.775 mi. road from Walker to Deakyneville, Contr. CN-14, 2.27 mi. from Mt. Pleasant to Summit Bridge, Contr. CN-15, 0.507 mi. road through Frederica, Contr. CK-17, 1.01 mi. Walnut St., Milford, Contr. CK-20, 5.75 mi. from Wescoats Corner to Rehoboth, Contr. CS-30, 2.43 mi. road from Bethel to Broad Creek, Contr. CS-31; rein.-con. bridge at Drawyers, Contr. 37-A, adv. E. N.-R. Feb. 21.

Fla., De Funiak Springs—Mar. 7, by City Council, paving and storm sewers. M. Bruce, city engr.; adv. E. N.-R. Feb. 21.

Louisiana—Mar. 6, by State Hy. Dept., Reymond Bldg., Baton Rouge, 11.36 mi. Federal Aid Project 144, Many-Mansfield Highway, Sabine Parish, washed or sand clay gravel. J. M. Fourmy, ch. engr.

O., Akron — Feb. 27 (extended date), by W. F. Peters, dir. Pub. Serv. grading, laying sidewalks, sewers and cindering 2,830 cu.yd. Spring St. and McKinley Ave., $44,000; grading, laying sidewalks and cindering 825 cu.yd. Mildred Ave., $14,000; grading, laying sidewalks and paving 3,305 ft. Big Falls Ave., Allyn and Power Sts., 24 ft., vitr. brick or asphalt, $74,000; grading and paving 1,165 ft. South Arlington St., 44 ft., vitr. brick or asphalt $34,000; curbing, guttering and paving 2,000 ft. Aqueduct St., 30 ft., Hillside vitr. brick or asphalt, $28,000. E. A. Kemmler, Delaware Bldg., engr. Noted Feb. 14.

O., Canton—Feb. 26, by Dir. Pub. Serv., City Hall, brick paving ¼ mi. 18th St., N. W., 40 ft., $27,500; paving 11th St. S.W. and 19th St. N. W., $70,000, about ¾ mi. 8th St., 40 ft., $95,000-$125,000; repaving ¾ mi. Market Ave. S. 60 ft., $75,000-$100,000; improving 13th St. S. W., $28,500. W. E. Sarver, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—Feb. 25, grading, curbing and paving Washington Blvd., Goodnor, Martindale, Rossmor and Hampstead Rds., brick, bituminous macadam, asphaltic concrete or sheet asphalt. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Richmond — Mar. 3, by Comrs. Wayne Co., paving, etc. $43,045. H. E. Thornburgh, aud.

Ind., Wabash—Mar. 4, by Comrs. Wabash Co. at office of W. Beauchamp, aud., improving Albert Bechtol Rd. $49,412.

Illinois — Feb. 29, by Dept. Pub. Wks. and Buildings, Div. of Highways, Springfield, grading 23 sections in various counties, 2,082,168 cu.yd. excav. C. H. Older, ch. highway engr.

Ill., Waukegan—A. L. Rogers, secy. Bd. Local Impvts., c/o Lake County Title & Trust Co., taking bids and opens same about Feb. 20, 22,000 sq.yd. rein.-con. paving with concrete curbs and gutters. H. J. Douthitt, City Hall, engr.

Wis., Marshfield—Mar. 5, by Wood Co. Hy. Comn., at City Hall, grading and surfacing Marshfield-Lincoln Rd., portion in Town of Lincoln, 2,171 cu.yd. earth excav., 9,244 sq.yd. 16 ft. concrete, 2,000 lb. reinforcing bars, etc.; Marshfield-Lincoln Rd., portion in City Marshfield, 1,970 cu.yd. earth excav., 7,000 sq.yd. 18 ft. concrete, etc. E. Morris, comr.

Streets and Roads (Continued)

Ia., Pocahontas—Mar. 6, by Pocahontas Co. graveling 32 mi. roads, 17,625 cu.yd. gravel, A. L. Thornton, Pocahontas, engr.

Minn., New Prague—Feb. 25, paving, curbing and guttering 8 blocks Main St. $30,000. E. E. Budin, city clk.

Kan., Dodge City—Taking bids paving 7 blocks brick on concrete, also curbing, guttering, etc. 9 blocks, $35,000.

Kan., Salina—Mar. 12, by Clerk Saline Co., fine grading and surfacing with sand clay 5.25 mi. Federal Aid Project 44, Sects. A and B, 18 ft., and 7.015 mi. Federal Aid Project 45, Sects. C and D, 18 ft. W. H. Cost, co. engr.

Ark., Pine Bluff — Mar. 3, by Comrs. Paving Dist. 71, resurfacing various streets in district with vitr. brick blocks. F. R. Aller, city engr.; adv. E. N.-R. Feb. 21.

Wyo., Cheyenne—Mar. 3, by City Comrs. improving 15 blocks, 30 ft., Dist. 5, Pershing Heights, incl. grading, curbing and paving with asphalt on concrete. J. A. Bruce, 710 Bankers Reserve Life Bldg., Omaha, Neb., engr.

Tex., Houston—Mar. 3, by H. L. Washburn, aud. Harris Co., surfacing, concrete bridging and culverts on Bway. and Telephone Rds. $26,000. Howe & Wise, co. engrs.

Tex., McKinney — Feb. 27, by O. T. Murray, judge Dollin Co., improving State Highway 1, Federal Aid Project 234, 22,590 sq.yd. concrete pavement and 1,882.85 cu.yd. gravel cushion. Already graded and subbase placed. $70,000. F. W. Cawthon, co. engr.

Tex., Waxahachie — Feb. 29, by H. R. Stovall, judge Ellis Co., grading and gravel surfacing 3.04 mi. State Highway 14, Federal Aid Project 384, 18 ft. $52,330. W. A. Spalding, co. engr.

Tex., Wichita Falls—Mar. 10, by D. B. Sartin, judge Wichita Co., grading and surfacing with one course rein.-con. 7.43 mi. State Highway 30, Bates Sect. Wichita Falls-Seymour Rd., Federal Aid Project 432, 18 ft. $263,000. J. M. Isbell, co. engr.

Okla., Tulsa—Mar. 3, by R. Garbett, city aud., grading and paving 56 blocks, 20,000 sq.yd. asphalt, 50,000 sq.yd. concrete, 20,000 cu.yd. excav. C. Schultz, City Hall, engr.

California—Mar. 3, by State Hy. Comn., Sacramento, improving highway between Half Moon Bay Rd. and Kings Mountain Rd., San Mateo Co., 6.4 mi. grading and surfacing with gravel and broken stone. R. M. Morton, state highway engr. Noted Nov. 8.

California — Mar. 10, by State Hy. Comn., improving highway between south boundary Ventura Co. and Camarillo, 13.5 mi. grading, 2.5 mi. widened with cement concrete shoulders, and 7.4 mi. to be paved with cement concrete. Former bids rejected. R. M. Morton, state highway engr. Noted Feb. 7.

Calif., Burlingame — City Trustees receiving bids improving Bway. between El Camino Real and San Mateo Dr., 25,000 sq. ft. grading, 985 tons asphalt concrete base, 60,000 sq.ft. asphalt concrete surface, etc. Bids previously asked not opened due to irregularity in proceedings. Noted Jan. 24.

Calif., Mill Valley—Town Trustees receiving bids and will open same about Mar. 15, improving Alcatraz Pl., Gardner, Bay View, Olive, Madrone Sts., etc., incl. 4,624 cu.yd. grading, 121,007 sq.ft. of 5 in. concrete, 19,044 sq.ft. macadam, 2,730 lin. ft. concrete curb and gutter, 2,768 sq.ft. concrete gutter, etc. J. C. Oglesby, Cheeda Blk., San Rafael, engr. Noted Dec. 6.

Calif., Tulare — City Trustees receiving bids improving various streets, 9,507 sq.ft. 6 in. and 142,435 sq.ft. of 5 in. concrete, 24,000 sq.ft. 4 in. concrete alley pavement, 74,390 sq.ft. 4 in. street pavement, 21,093 sq.ft. of 4 in. cement walks, 6,916 lin.ft. of cement concrete curb, etc. J. P. Williams, city engr. Noted Jan. 24.

Ontario—Mar. 4, by S. L. Squire, deputy minister of highways, Toronto, 7.6 mi. washed gravel concrete pavement, Contrs. 1051 and 1053, $300,000; 6.9 mi. bituminous penetration pavement, Contrs. 1054 and 1055, $210,000; 21.5 mi. waterbound macadam roadway Contrs. 1056 to 1063 inclusive, $400,000; 74.7 mi. oiling and repairing and surface treatment of macadam roads, Contrs. 1064 to 1075 inclusive $200,000; 18.8 mi. grading Contrs. 1076 to 1080 inclusive $120,000. G. Hogarth, 110 University Ave., Toronto, ch. engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Quees Boro, Queens Subway Bldg., grading, curbing, laying sidewalks, etc. on **(1)** Ambrose St. **(2)** Chafee St. **(3)** Edson St. **(4)** 80th St. **(5)** 85th Ave., sheet asphalt paving **(6)** Edson St. **(7)** 50th St., grading **(8)** 39th St. and Bryce Rd., receiving basins and paving **(9)** 39th St., from C. Kurth, 9519 126th St., Richmond Hill, **(1)** $7,789 **(3)** $6,354; Highway Impvt. & Repair Co., **(2)** $5,479 **(4)** $33,128 **(5)** $5,300 **(6)** $12,704 **(7)** $24,284 **(9)** $17,907; Peace Bros., Inc., 57 North Laurence St., Flushing, **(8)** $9,158. Noted Feb. 7.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Feb. 15, grading, regrading, curbing, recurbing and sheet asphalt paving unpaved portion of Riverside Dr., etc., from C. D. Beckwith, Inc., 2875 Bway., $888,868. Noted Feb. 7.

N. Y., New York—Park Bd., Municipal Bldg., Feb. 14, paving and repaving, asphaltic mastic walks in Central Park, from L. DiMinna, $29,590; grading and curbing, etc., new roadway entrance to Central Park at 6th Ave. and 59th St., also drain pipe in music stand in mall in Central Park, from Fleming & Sheppard, Inc., 116 Broad St., $20,880 and $3,673 respectively; drain pipe and completing roads and paths in connection with construction of Rice Memorial on Pelham Bay Parkway, from J. Paladino, Inc., $111,742. Noted Feb. 7.

Md., Towson—Baltimore Co., Feb. 14, concrete paving 1.5 mi. Graystone Rd., Group 1, and 2 mi. Middletown Rd. from end of concrete east, from A. C. Cantell & Sons Co., Towson, $96,617.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, grading and surfacing with limestone on course stone base 13.64 mi. Sparta-Warren Co. line Rd., 18 ft., Federal Aid Project 201, White Co., from Boyd Williams Constr. Co., Murfreesboro, $376,971. Noted Jan. 24.

O., Akron—W. F. Peters, dir. Pub. Serv., Feb. 13, grading, laying sidewalks and cindering **(1)** 675 cu.yd. Avon St. **(2)** 1,600 ft. Atwood Ave., grading and paving with **(a)** asphalt **(b)** brick **(3)** 700 ft. Wellesley Ave., 24 ft., grading, laying sidewalks and sewers, etc. **(4)** 2,670 ft. Emerling Ave., 26 ft., grading, laying sidewalks and paving **(5)** 3,560 ft. Wildwood Ave., 26 ft. **(6)** 2,085 ft. Chalker Ave., 24 ft. **(7)** 820 ft. Elma St., 20 ft., from Guran & Brucich, 429 Mathews St., **(1)** $8,471 **(2)** $7,385; T. A. McShaffrey Constr. Co., 171 South Forge St., **(3a)** $10,790 **(4a)** $46,309 **(5a)** $68,276 **(6a)** $3,028 **(7a)** $14,681; Hollinger & Davidson, 435 South Bway., **(6b)** $32,030 **(7b)** $15,907. Noted Feb. 7.

Indiana—State Hy. Comn., Indianapolis, Feb. 5, paving 6.032 mi. Louisville Rd., Federal Aid 21, Clark Co., from Deer & Bergen, Franklin, $156,998, engrs. est. $173,418; 6.199 mi. Yellowstone Trail, Sect. D, Federal Aid 66, Kosciusko Co., from Williams & Baldwin, Cleveland Heights, O., $141,042, engrs. est. $157,054; 5.834 mi. Sect. E and 6.98 mi. Sect. F Yellowstone Trail, Federal Aid 66, Kosciusko and Whitley Counties, from E. & G. Alexander, North Star, O., $152,122 and $168,657 respectively, engrs. est. $172,613 and $182,290 respectively; 7.699 mi. Sect. G and 7.352 mi. Sect. H Yellowstone Trail, Federal Aid 66, Whitley and Allen Counties, from Hilding Constr. Co., Grand Rapids, Mich., $181,443 and $151,503 respectively, engrs. est. $183,539 and $172,149 respectively; 7.736 mi. Sect. A LaFayette Pike, Federal Aid 74, Boone Co., from G. T. Miller, Lebanon, $153,437, engrs. est. $156,048; 8.095 mi. Sect. D LaFayette Pike, Federal Aid 74, Tippecanoe Co., from S. S. Palma, LaFayette, $152,865, engrs. est. $152,333. Noted Jan. 24.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Feb. 15, concrete paving **(15.61 mi. 1-22, 23 and 24, Crawford, means 15.61 mi. Route 1, Sects. 22, 23 and 24, Crawford Co.)**, 15.61 mi. 1-22, 23 and 24, Crawford, from A. J. Parish, Paris, $313,727; 47.28 mi. Div. A 18 and Div. C 2, LaSalle, Bureau and Lee, and 5.28 mi. 23-4, LaSalle, from R. F. Conway Co., 133 West Washington St., Chicago, $926,000 and $145,146 respectively; 8.56 mi. 3-26 and 27, Mercer and Warren, from W. O'Neil Sons Co., Faribault, Minn., $196,994; 12.07 mi. 8-21, Iroquois, from Cast Stone Constr. Co., 318½ South Barstow St., Eau Claire, Wis., $243,389; 9.37 mi. 8-24 and 25, Livingston, from Shanks & Gannon, Watseka, $172,465; 3.12 mi. 3-51, Green, and 2.88 mi. 36-1, Hancock, from E. J. Eiff & Co., Quincy, $75,816 and $56,989 respectively; 2.99 mi. 832, Woodford, from Hedges Constr. Co., $60,506; 5.04 mi. 9-26, Hancock, from Cameron & Joyce Co., Keokuk, Ia., $109,599; 3.45 mi. 16-16, Christian, from Indiana Road Paving Co., Rochester, Ind., $79,296; 15.52 mi. 12-30, 31 ,32 and A-1, St. Clair, from Capital Constr. Co., 1207 Cherry St., Des Moines, Ia., $339,500; 7.48 mi. 19-26, 27, McHenry, from G. Welch, Beloit, Wis., $155,000; 12.84 mi. 25-15 and 16, Cumberland and Coles, from Stressenreuter Bros., 3020 South Halsted St., Chicago, $240,000; grading 2-74A, Lee, 82,466 cu.yd. excav. from F. M. Johnson, Dixon, $39,673; bridge on 3-26B, Mercer, 1 concrete girder and 1 concrete substructure, from C. D. Stratten, Little York, $8,566; 1 superstructure for steel bridge on 3-26C, Mercer, from St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $7,348; 2 concrete girders on 8-21D, Iroquois, from Ferguson Constr. Co., 1033 North 2nd St., Rockford, $31,679; 2 concrete girders on 23-4B, LaSalle, from Acme Engrs. Co., Decatur, $25,753. Noted Jan. 31.

Mont., Great Falls—Improving Central Ave. between Park and 6th Sts., incl. 12,459 sq.yd. paving, etc., from Leigland & Kleppe, Stanton Bank Bldg., rein.con. $2.60 sq.yd., total $42,488; Birch & Son, Ford Blk., bitulithic $42,169, 3 in. brick $73,488, 3½ in. $83,677.

Tex., Laredo—Webb Co., widening present gravel from 15 to 18 ft. and constructing thereon 16 ft. x 2½ in. asphalt macadam wearing surfacing on 8.14 mi. State Highway 2, Sect. B, Federal Aid Project 165, 152,750 gal. asphalt cement, 4,709 cu.yd. gravel with 8,757 cu.yd. crushed rock base, also on 6.5 mi. State Highway 1, Sect. A, Federal Aid Project 165, 122,032 gal. asphalt, 3,643 cu.yd. gravel and 6,997 cu.yd. crushed rock, from F. P. McElwrath, Corsicana, $55,209 and $45,795 respectively. Noted Jan. 17.

Colorado — State Hy. Dept., Denver, gravel surfacing 6.508 mi. Federal Aid Project 253-A, Routt Co., from Northwestern Constr. Co., Craig, $126,375; concrete paving 1.799 mi. Federal Aid Project 256-B, Logan Co., from W. F. Pigg & Son, Engineers Bldg., Denver, $53,703. Noted Jan. 31.

Oregon—State Hy. Dept., Salem, Feb. 5, improving 19.9 mi. Coquille Bandon Sect. Roosevelt Highway, 18 ft., Coos Co., **(1)** 16,500 cu.yd. base course **(2)** 18,000 cu.yd. top course **(3)** 5,000 cu.yd. maintenance **(4)** 1,500 cu.yd. cushion course sand **(5)** 2,000 cu.yd. filler sand, **(a)** broken stone **(b)** crushed gravel, from Johnson Contg. Co., Exch. Bldg., Portland, **(1a)** $4.03 per cu.yd. **(2a)** $4.13 **(3a)** $4.25 **(4a)** $0.50 **(5a)** $0.50, total **$163,835, (1b)** $3.93 **(2b)** $4.13 **(3b)** $4.25 **(4b)** $0.50 **(5b)** $0.50, $162,185.

Calif., Oroville — Butte Co., improving 3.46 mi. Biggs-Princeton Rd., incl. 6,500 tons broken stone surface, 236 tons E asphalt road oil, and 7.87 mi. Gridley-Colusa Rd., incl. 15,500 tons broken stone surface, 470 tons E asphalt, from Skeels & Hudson, Auburn, $16,807 and $38,965 respectively. Stone and asphalt furnished by county, $15,423 and $35,443 respectively. Noted Feb. 14.

Calif., Stockton—San Joaquin Co., from W. Moreing, 232 West Vine St., improving Bainbridge Rd., incl. 4,500 cu.yd. grading, 10,350 tons gravel or 8,780 tons crushed rock, etc., $24,222; Eight Mile Rd., 9,520 cu.yd. grading, 9,930 tons gravel or 8,430 tons crushed rock, etc., $25,244; 3.7 mi. Taylor-Ferry Rd., 3,000 cu.yd. grading, 7,690 tons gravel or 6,760 tons base rock, 2,700 tons top rock, 1,250 tons dressing for oil, 1,035 bbl. asphalt oil, $32,695; Harney Lane Rd., 1,200 cu.yd. grading, 5,450 tons gravel or 4,620 tons crushed rock, etc., $17,328. Noted Jan. 24.

CONTRACTS AWARDED

N. J., Newark—G. C. Bergen, purch. agt. Essex Co., grading and paving Pay Ave. in Bloomfield to Glenridg-Montclair line, granite block and asphalt on concrete, to Franklin Contg. Co., 20 Washington Pl., $61,759. Noted Jan. 31.

W. Va., Charleston—Canawa Co. constructing Lens Creek Rd., to L. J. Chandler, Virginia, Va., $84,761. Noted Jan. 10.

North Carolina — State Hy. Comn., Raleigh, grading, etc. **(S. P. means State Project)** 4.66 mi. S. P. 472-A, Vance Co., to C. A. Ragland, Louisburg, $37,494, 6.19 mi. S. P. 662-A, Richmond Co., to T. W. Chandler, Virgilina, Va., $41,606, 8.35 mi. S. P. 912-B, Cherokee Co., to W. T. Moore, Andrews, $32,981; 1.57 mi. S. P. 992, Transylvania Co., to W. H. Anderson Constr. Co., Spruce Pine, $45,432, 8.62 mi. S. P. 912-A, Cherokee Co., to Wilson Constr. Co., Rutherfordton, $81,007; grading and concrete paving 8.07 mi. S. P. 732-B, Davie Co., to Hardway Constr. Co., 909 Elizabeth Ave., Charlotte, $282,758, 9.51 mi. S. P. 836-B, Henderson Co., to J. M. Gregory & Co., Pittsboro, $282,956, 5.15 mi. S. P. 536, Guilford Co., to Hagedorn Constr. Co., Greensboro, $174,656; grading 10 mi. S. P. 222, Duplin Co., grading and waterbound macadam paving 2.31 mi. S. P. 352, New Hanover and Brunswick Counties and grading and sand asphalt paving 11.99 mi. S. P. 381, Pender Co., to Highway Eng. & Constr. Co., Selbyville, Del., $264,801, $48,187 and $240,274 respectively. Noted Feb. 14.

Fla., Jacksonville—Duval Co. improving 19.6 mi. St. Augustine Rd., to J. W. Wilson.

Streets and Roads (Continued)

Clark Bldg., $329,000; 14.9 mi. Atlantic Blvd. also Baldwin-Maxwell Rd., to C. F. Lytle, Atlantic Natl. Bank Bldg., $819,000 and $170,000 respectively; 10.3 mi. Kings Rd., to J. Y. Wilson and W. J. Bryson, 1418 West Church St., $189,000; 11 mi. Main St. Rd., 5.5 mi. Moncrief Rd. and 5.4 mi. San Jose Blvd., to W. J. Bryson, 1418 West Church St., $203,000, $96,000 and $79,000; 6.3 mi. Orange Park Rd. to W. J. Bryson and T. B. Gillespie, Palatka, $93,000. Noted Nov. 15.

Miss., Leland—Paving 70,000 sq.yd. various streets, 1½ in. Willite top, 1 in. binder on 5 in. concrete, to R. G. Lassiter, 327 Arcade Bldg., Norfolk, Va., $2.49 per sq.yd. Noted Jan. 17.

Miss., Vicksburg — Paving 61,000 sq.yd. various streets, brick on concrete, curbing, etc., to E. A. Finch, Hattiesburg; brick will be furnished by Murphysboro Paving Brick Co., Murphysboro, Ill. City will do grading. $225,000.

La., Baton Rouge—Comn. Council, paving 80,000 sq.yd. 2 in. Warrenite bitulithic on 5 in. concrete to Southern Roads Co., Amer. Trust Bldg., Birmingham, Ala., $2.80 per sq.yd., also 20,000 sq.yd. 3 in. vertical fibre brick on 5 in. concrete, to Valieant & Toomer, Ft. Worth, Tex., $3.40 per sq.yd. Noted Jan. 3.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading, structures, etc., 0.63 mi. Cumberland River Bridge City Ferry Rd., 16 ft., State Project 139, Montgomery Co., to Federal Constr. Co., Nashville, $15,637, 16.07 mi. Brownsville-Tipton Co. Rd., 18 ft., Haywood Co., to Little & Dean, Memphis, $106,701, 13.49 mi. Linden-Lewis Co. Rd., 16 ft., State Project 116, Perry Co., to C. & G. Constr. Co., Hohenwahl, $82,659; 15.56 mi. Crossville-White Co. line Rd., 16 ft., State Project 130, Cumberland Co., incl. 3 bridges, to A. M. Cook, Oneida, $168,490; grading and concrete surfacing 7.6 mi. Manchester-Hillsboro Rd., 18 ft., State Project 150, Coffee Co., incl. 3 bridges, to Citizens Constr. Co., Savannah, Ga., $114,106; grading, structures, and cement concrete surfacing 14.41 mi. Federal Aid Projects 95 and 97 Kingsport-Blountville Rd., 18 ft., Sullivan Co., incl. 2 bridges, over 20 ft. spans, to Dickson Constr. Co., Savannah, Ga., $583,186; macadam surfacing, etc., 2.25 mi. Nolichnicky River-Caney Branch Rd., 10 ft., Greene Co., to Anderson & Scott, Harriman, $14,258. Noted Jan. 24.

O., Cincinnati—Hamilton Co. paving 10,840 ft. Mullen Rd., 16 ft., waterbound macadam, to H. Westermann, R.R. 13, Mt. Healthy, $26,556. Noted Feb. 7.

O, Steubenville—Improving Market and 6th Sts., to Federal Asphalt Paving Co., Main and D Sts., Hamilton, $79,855.

Wis., Waukesha—Waukesha Co. concrete surfacing, etc., Waukesha-Prospect Rd., to McGucken Constr. Co., 92 Mason St., Milwaukee, $59,771. Noted Feb. 7.

Ia., Des Moines—Polk Co., paving, etc., 5.223 mi. road east from here, to Wright Constr. Co., 211 Flynn Bldg., Des Moines, 21,542 cu.yd. excav. $0.65 per cu.yd., 2,020 cu.yd. excav. $0.80, 61,289 sq.yd. paving $2.385.

Ia., New Hampton — Curbing, guttering and asphaltic concrete paving 34,000 sq.yd. various streets, to Bryant Asphalt Paving Corp., Sioux City, $95,000.

Ia., Oakland—Curbing, guttering and paving 15,000 sq.yd. various streets, to Union Constr. Co., Des Moines, $0.93 per lin.ft. for curb and gutter and $2.65 per sq.yd. for vibrolithic concrete.

Neb., Auburn—City Council, grading and paving in Dist. 8, 8,100 sq.yd. rein.-con., 4,600 ft. curb and gutter, etc., to Kerns Constr. Co., Auburn, $24,941. Noted Jan. 17.

Mo., St. Joseph—Buchanan Co. improving 2.5 mi. Fankhouser Rd., 18 ft., 33,915 cu.yd. earth, 30,000 cu.yd. borrow and 2,500 cu.yd. rock excav., etc., also 4 mi. Kessler Rd., 18 ft., 60,000 cu.yd. earth and 100 cu.yd. rock excav., to M. Costello, 1519 South 22nd St., $21,636 and $11,000 respectively. Engrs. est. $31,274 and $18,000 respectively.

Ark., Little Rock—Improving Dist. 353, 21,000 sq.yd. asphalt resurfacing on old concrete and brick, 1,500 sq.yd. concrete base renewal, 2,100 tons asphalt binder, 1,000 ft. concrete curb, etc., to Gregory & Wilson, Southern Trust Bldg., $36,750. Engrs. est. $43,000. Noted Jan. 31.

Ark., Pine Bluff—Concrete paving 33,000 sq.yd. various streets, to C. E. Philpot, Pine Bluff, $2.19 per sq.yd. Noted Jan. 24.

Tex., Amarillo—Paving 28 blocks, 3 in. brick on 4 and 5 in. concrete, to Plains Paving Co., 316½ Polk St., curb and gutter $1.08, 4 in. base $3.20, 5 in. base $3.30. Engrs. est. $80,000. Noted Jan. 17.

Tex., Bryan—Resurfacing 25,000 sq.yd. various streets, asphaltic concrete, to Smith Bros. Inc., Sumpter Bldg., Dallas, $34,000. Engrs. est. $30,000.

Tex., Houston—Paving Walker St. from Austin to Sam Houston Sts., bituminous, to C. K. Horton, Box 1025, $64,998. Noted Jan. 10.

Tex., Houston—Harris Co., grading and gravel surfacing on crushed rock 1.56 mi. State Highway 19, Federal Aid Project 393, 16 ft., to B. S. Davidson, Box 1097, $27,504; bituminous topping to Haden & Austin, 727 Kress Bldg., $6,248. Engrs. est. $37,127. Noted Jan. 31.

Tex., Palo Pinto—Palo Pinto Co. grading and laying crushed stone base on 4.97 mi. State Highway 28, Federal Aid Project 414, 18 ft., to McClung Constr. Co., Cleburne, $63,714. Bids for bituminous topping to be received later. Noted Feb. 14.

Tex., Robert Lee — Coke Co., grading, etc., 14.47 mi. State Highway 70, from Bronte to Nolan Co. line, and 11.477 mi. State Highway 70 from here to Bronte, both 16 ft., to Hannah Constr. Co., Box 994, Waco, $44,557 and $45,750 respectively. Engrs. ests. $40,000 and $42,000 respectively. Noted Jan. 24.

Okla., McAlester—Pittsburg Co., grading and paving 2 mi. Hartsborne Rd., 21,000 sq.yd. concrete, 8,600 cu.yd. excav., to Altman Rogers Co., McAlester, $35,071.

Okla., Oklahoma City — Grading and concrete paving 16 blocks Hill, Olie, Shartel, 33rd and 34th Sts., 30 ft., to Tibbets & Pleasant, Daniels Bldg., Tulsa, $88,474.

Wash., Seattle—Bd. Pub. Wks., paving Angeline St. et. al., to Olympic Constr. Co., 1326 Northlake Ave., $35,209. Noted Feb. 7.

Oregon—State Hy. Dept., Salem, broken stone surfacing 7.55 mi. Unit 1 and 12.41 mi. Unit 2 of Sherman Highway, 18 ft., Wasco Co., to Morrison Knudsen Co., Railroad St. and Reclamation Ave., Boise, Idaho, $220,820; clearing and grading 14.1 mi. Dalles-California Highway, 18 ft., Wasco Co., to Bauers & Bauers, Dayton, Wash., $67,245; gravel surfacing 27 mi. Linn-Quinton Sect. of Columbia River Highway, Morrow Co., to Lyons & Pierce, Spokane, Wash., $25,050; 5 small steel bridges in Umatilla Co., to O. M. Pierce & Co., Portland, $16,630.

Calif., Hanford — Improving portion Myrtle, Florinda, Water Sts., etc., incl. grading, 1½ in. Warrenite-bituminous surface on 3 in. bituminous, cement curbs, gutters, etc., to California Constr. Co., 58 2nd St., San Francisco, $36,100.

Calif., Los Angeles—Improving 48th St. between 1st Ave. and Angeles Mesa Dr., concrete on bituminous, to Griffith Co., Railway Bldg., $104,265; North Sherman Way between San Fernando and Parenthia Sts., to Tryon & Brain, Tajo Bldg., grading $14,775, 560 sq. ft. asphalt $0.35, 543,609 sq.ft. concrete $0.23, total $140,000; 21st St. between Gaffney and Crescent Sts., to Warren Constr. Co., 5444 Hollywood Blvd., grading $4,800, 2,104 sq.ft. concrete $0.30 ft., 78,216 sq. ft. Warrenite-bituminous surface $0.227 ft., $1,481 ft. curb $0.75, 13,879 sq.ft. walks $0.22, 4,336 sq.ft. gutter $0.32, 1,230 ft. house sewers, $1.75, total $34,485.

Calif., Oceanside—Improving Pacific Ave., incl. 2 mi. walks and curbs, to Fenton & Co., P. O. Box 907, San Diego, $58,500.

Calif., Pacific Grove—Improving portion Fountain and Central Aves., grading, 1½ in. Warrenite-bituminous surface on 3½ in. asphalt concrete, concrete curbs, gutters, etc., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $60,000. Noted Jan. 24.

Industrial Works

PROPOSED WORK

Mass., Fitchburg—Machine Shop—H. L. Goodnow Fdry. Co. plans machine and pattern shop, $40,000.

Mass., West Lynn—Plant—Genl. Electric Co. plans reinforcing 4 story, 80 x 180 ft. building with wooden framing and brick walls.

N. Y., New York — Warehouse and Garage—Charles & Co., 48 East 43rd St., plans 100 x 105 x 175 ft., rein.-con., brick and steel, plain foundation, 1st Ave. and 45th St. $750,000. Private plans.

N. J., Allenhurst—Power Plant—Atlantic Coast Electric Light Co., Main St., plans power plant improvements. $400,000. Engineer and architect not selected.

N. J., Newark—Plant—Palmollve Co., 42 4th St., Milwaukee, Wis., having plans prepared by Lockwood, Greene & Co., archts. and engrs., 38 South Dearborn St., Chicago, brick and concrete, plain foundation, here. $2,000,000.

Pa., Somerset — Plant — Somerset Drug Co. plans 4 story and basement, 66 x 122 ft. brick plant with office rooms on top floor, Union St. $150,000.

Md., Baltimore — Warehouse — Central Metal & Supply Co., 609 East Lombard St., had plans prepared 4 story, 90 x 108 ft., 20th and Mace Sts. $200,000. Private plans.

Md., Baltimore—Heating Plant—Mayor and City Council, City Hall, plan heating plant. $250,000. W. F. Stone, Jr., Munsey Bldg., archt. Engineer not selected.

W. Va., Morgantown—Garage and Sales—Oldsmobile Sales Corp., 379 Beechnut Ave., soon takes bids 1 story, 67 x 194 ft. $70,000.

Fla., Clearwater—Gas Plant—City Comn. passed ordinance authorizing $150,000 bond issue for gas plant.

Tenn., Jacksonville—Mill—Old Hickory Paper Co. plans 1st unit of plant at Old Hickory Powder plant. Cost incl. equipment $1,250,000.

Tenn., Memphis—Warehouse—O. K. Storage & Transfer Co., Jefferson Ave., having plans prepared by E. W. Mann, Madison Ave. Bldg., 7 story, rein.-con., Madison Ave. $250,000. J. M. Walker, pres.

Ky., Henderson — Factory — Kentucky Box & Crate Co. plans factory. $65,000.

O., Cincinnati—Factory—Davis Welding & Mfg. Co., 10 Richmond St., having preliminary plans prepared by Lockwood, Greene & Co., 38 South Dearborn St., Chicago, 1 story, brick and steel. $100,000.

O., Cincinnati—Freight Depot—Pennsylvania R.R., Pearl and Butler Sts., plans superstructure, 1 story, 60 x 200 ft., Court and Gilbert Aves. $300,000. H. C. Johnston, c/o owner, engr.

O., Cleveland — Factory — T. Gutscher, 4236 West 36th St., had plans prepared by Miller & James Co., Erie Bldg., altering and constructing 2 story, 58 x 100 ft., brick, steel and concrete addition, West 65th St. $50,000.

O., Cleveland — Foundry — Nickel Plate Fdry. Co., 14915 Woolworth Rd., had plans prepared by H. M. Morse & Co., Finance Bldg., 1 story, 96 x 160 ft., brick and steel, Woodworth Rd. $50,000.

O., Cleveland — Garage — Lessee, c/o Goakes & Detttlebach, 319 Williamson Bldg., plans 2 story, brick, steel and concrete, Superior Ave. near East 12th St. $60,000. Engineer and architect not selected.

O., Cleveland—Garage—J. M. Sampliner, 10111 Euclid Ave., having plans prepared by Braverman & Havermaet, Ulmer Bldg., 2 story, 45 x 80 ft., brick, steel and concrete, East 81st St. and Euclid Ave. $40,000.

O., Columbus—Service Station and Sales Room—Windus Motor Car Co., 178 East Long St., having plans prepared by H. J. Dauben, 22 Ontario Bldg., 1 story and basement, 120 x 169 ft., brick and concrete, North High St. $100,000.

O., Garfield Heights (Cleveland, P. O.)—Factory — Cleveland Builders Supply & Brick Co., c/o L. Koblitz, Leader-News Bldg., Cleveland, had plans prepared 1 story, 42 x 135 ft., steel and tile, Warner Rd., here. $40,000. Private plans.

O., Toledo — Garage — City takes bids about Mar. 1, 3 story, 100 x 141 ft., rein.-con. and brick, plain foundation, Erie St. $150,000. Langdon, Hohly & Gram, Nicholas Bldg., archts. Noted Nov. 29.

O., Toledo — Plant — Langdon, Hohly & Gram, Nicholas Bldg., preparing plans and takes bids about Mar. 15, 2 story and basement, 50 x 150 ft., brick and concrete, Woodruff St., for Cannan Dry Cleaning Co., 2018 Adams St. $50,000.

Ind., Bloomfield—Garage and Service—Haywood Motor Sales Co., plans 1 and 2 story, 100 x 135 ft., brick. $45,000.

Ind., Hobart—Plant—Natl. Fireproofing Co. plans to build portion of plant recently destroyed by fire. $75,000.

Mich., Detroit — Plant — Detroit Free Press Co., Free Press Bldg., having plans prepared by A. Kahn, 1000 Marquette Bldg., 6 and 13 story, 130 x 212 ft. rein.-con., brick and steel, plain foundation, Lafayette and Cass Aves.

Mich., Port Huron — Mill — Dunn Sulphite Paper Co. plans paper mill, 15 ton daily capacity. $250,000. Billingham & Cobb, 404 Press Bldg., Kalamazoo, engrs.

Mich., River Rouge — Factory — Ford Motor Co., Highland Park, (Detroit, P. O.), had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 270 x 1260 ft. spring and upset building, rein.-con., brick and steel, plain foundation.

Wis., Milwaukee — Warehouse — Amer. Ry. Express Co., 15 North Wabash Ave., Chicago, having plans prepared by their Architectural Dept., 1 story, 52 x 150 ft. brick and timber addition, plain foundation, Michigan St., here. $50,000.

Wis., Wauwatosa — Garage — M. Stark, 53rd St. and Blue Mound Rd. plans 1 story, 100 x 202 ft., brick and concrete addition, plain foundation, Blue Mound Rd. $50,000. Engineer and architect not selected.

Industrial Works (Continued)

Mo., St. Louis—Garage—Local syndicate, c/o A. Sommer, 3704 Juniata St., plans 5 story and basement, 100 x 160 ft., rein.-con., brick and stone, Morgan St. $175,000. Private plans.

Tex., Dallas—Bakery—F. A. Carreaud, 3521 Dartmouth St., plans to remodel building on Elm and Walton Sts. for bakery. $50,000.

Tex., Houston — Warehouse — Houston Bag & Bagging Co., Washington Ave., plans concrete and brick. $50,000. Engineer and architect not announced.

Tex., Luling — Refinery — Mutual Pipe Line Co. making plans topping plant. $40,000-$50,000.

Tex., Panhandle City—Refinery—Pauline Oil & Gas Co. had plans prepared oil refinery, 5,000 bbl. daily, and 17 mi. pipeline. $80,000.

Tex., San Antonio—Roundhouse—International Great Northern R.R. Co., San Antonio, plans 1 story, brick and rein.-con. roundhouse, to house 10 oil burning engines, West Commerce and South Comal Sts. $100,000. F. S. Schwinn, Houston, ch. engr.

Tex., San Juan—Cotton Compress—J. K. Cain, Corpus Christi, plans 140 x 190 ft., brick and concrete, here. $45,000.

N. M., Silver City—Power Plant—Amer. Alum Corp., 55 Liberty St., New York, having preliminary plans prepared hydro-electric power plant on the Gila River, here. $100,000. Private plans.

Wash., Seattle—Distribution and Storage Plants—Union Oil Co., 3000 Railroad St., plans to expend $500,000 for extensions to distributing plants, will erect 16 new storage plants.

Calif., Fruitvale (Oakland P. O.)—Factory, Planing Mill, etc.—Concealo Fixture Co., 1343 East 12th St. Oakland, having plans prepared by Hutchinson & Mills, 1214 Webster St., Oakland, rein.-con., High St., here. $55,000.

Calif., Los Angeles—Drafting Room—Southern California Edison Co., 306 West 6th St., having plans prepared 1 story, 104 x 160 ft. drafting room for engineering department, 2nd St. and Boylston Ave. $40,000. Private plans.

Calif., Los Angeles—Warehouse—Santa Fe Land Co. having plans prepared by Eng. Dept. of Atchison, Topeka & Santa Fe Ry., 6th and Main Sts., 4 story, 144 x 374 ft., rein.-con., Mateo St. $300,000.

Calif., Oakland—Plant—T. J. Dorsch, 283 Minna St., San Francisco, representing interests which plan frame and steel sulphur plant on western waterfront, here. $40,000. Private plans.

Calif., Oakland—Warehouse, etc.—H. J. Heinz Co., 217 2nd St., San Francisco, plans warehouse, packing plant, offices, etc., Bay, Cedar, Belle and 7th Sts., here. $1,000,000.

Que., Hull—Power Plant—Hull Electric Co., 117 Main St., plans power plant, dam, and hydro electric lines at Paugan Falls, Gatineau River, Low Twp., will eventually have capacity of 100,000 hp. $3,000,000. G. G. Gale, vice-pres. and engr.

Que., La Salle — Gas Plant — Montreal Light, Heat & Power Co., 13 Craig St. W., Montreal, plans 8,000,000 cu.ft. carbureted water gas plant, also 6,000,000 cu.ft. steel holder, here. $1,000,000.

Que., Verdun — Plant, etc. — Montreal Light, Heat & Power Co., Craig St. W., Montreal, plans large hydro-electric plant and dam at city limits of Verdun and Ville LaSalle. $2,000,000. R. M. Wilson, ch. electrical engr.

BIDS DESIRED

N. C., Greensboro—Boiler Plant—Feb. 26, by J. I. Foust, pres. North Carolina College for Women, boiler plant. $40,000. C. R. Place, 70 East 45th St., New York, engr. A. Fellheimer and S. Wagner, 7 East 42nd St., New York, archts.

O., Cleveland—Factory—Chicago Pneumatic Tool Co., 1241 East 49th St., taking bids and opens same about Feb. 28, 3 story and basement, 43 x 126 ft., brick, addition. $60,000. Private plans. Noted Dec. 6.

Wis., West Allis—Garage—Feb. 26, by R. Allison, archt., 425 East Water St., Milwaukee, 1 story, 62 x 120 ft., brick, plain foundation, for Mertz-Knippel Co., 6620 Greenfield Ave. $40,000. Noted Jan. 24.

Calif., Los Angeles—Newspaper Plant—Morgan, Walls & Clements, archts., Van Nuys Bldg., receiving bids 3 story (ultimately 4 story), and basement, 100 x 200 x 282 ft., rein.-con., Trenton St., for Evening Herald Publishing Co., 136 South Bway. Noted Jan. 10.

Ont., Ottawa—Bakery—Feb. 29, by S. Comber, archt., 127 Stanley St., Montreal, Que., rein.-con. and brick, plain foundation, Hillson Ave., for Standard Bread Co., Ltd., Hillson Ave., $100,000.

BIDS RECEIVED

N. Y., Long Island City—Housing Station—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Feb. 11, housing station, 62nd Rd. and 94th St., from Charles Meads & Co., 217 West 14th St., New York City, $116,200. Noted Feb. 7.

CONTRACTS AWARDED

Me., Knightville (Portland P. O.)—Generating Plant—Cumberland County Power & Light Co., 453 Congress St., Portland, brick, rein.-con. and steel, plain foundation, here, to Foundation Co., 120 Liberty St., New York City. Archts. est. $1,000,000.

N. Y., Albany—Garage and Salesroom—Bolz & Hegelman, Ontario St. and Park Ave., 1 story, 134 x 138 ft., rein.-con. and brick, to J. Myers, 476 Central Ave., $75,000.

N. Y., Albany—Garage and Salesroom—J. Myers, 1 story, 134 x 138 ft., brick, plain foundation, Ontario St. and Park Ave., to Bolz & Hegelman, Park St., $75,000.

N. Y., New Windsor — Plant — Hudson River Woolen Mills, rein.-con., brick and steel, plain foundation, to B. M. Higginson, Inc., 64 2nd St., Newburgh. Archts. est. $40,000.

N. Y., New York—Bakery—W. W. Astor c/o Farmers Loan & Trust Co., 26 William St., altering and constructing 3 story, brick, steel and stone addition, plain foundation West 50th St., to F. J. Murphy, Inc., 2 West 45th St. Archts. est. $175,000.

N. J., Bridgeton—Plant—Illinois Glass Co., 1 story, 100 x 450 ft., steel and brick, plain foundation, to J. S. Rogers Co., Drexel Bldg., Phila. Archts. est. $200,000. Noted Jan. 17.

Pa., Lewistown — Garage — S. Hawke, Valley St., 3 story and part basement, 94 x 145 ft. concrete, brick and steel garage, Valley St., to J. B. Trexler, Lewistown.

Pa., Phila.—Plant—Collins & Aikman Co., 51st and Columbia Sts., 6 story, 62 x 92 ft. rein.-con. and brick, plain foundation, Leidy and Farson Sts., to Turner Constr. Co. 1713 Sansom St., $100,000.

Md., Baltimore—Generator House—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., will build 3 story, 64 x 65 x 113 ft., brick and steel, plain foundation, Race and Barney Sts., by day labor. $300,000. Private plans.

Md., Baltimore — Manufacturing — Bal-Mar Co., c/o Ballinger Co., archts., 12th and Chestnut Sts., Phila., 1 story, 214 x 451 ft., brick, plain foundation, Homeland Ave. and Notre Dame Lane, here, to Consolidated Eng. Co., Calvert Bldg., $200,000. Noted Feb. 7.

Md., Baltimore — Warehouse — Central Metal & Supply Co., 609 East Lombard St., 4 story, 90 x 108 ft., rein.con., plain foundation, 20th and Mace Sts., to W. F. Chew, 212 Clay St., $200,000.

W. Va., Huntington—Garage—B. G. Cain, 313 6th St., 3 story, 60 x 140 ft., brick and stone, to J. E. Berry, 1678 3rd Ave. Est. cost $140,000.

Fla., Jacksonville—Plant and Warehouse—Cheek-Neal Coffee Co., Cummins Sta., Nashville, Tenn., 5 story, to contain 75,000 sq.ft. of floor space, rein.-con. and brick, wood pile foundation, here, to Turner Constr. Co., 140 Pinetree St., Atlanta. Cost plus basis. Archts. est. $225,000. Noted Jan. 31.

O., Cincinnati — Plant — Union Gas & Electric Co., 4th and Plum Sts., foundations for Fort Miami power plant, 1,500 tons reinforcing and 50,000 cu.yd. concrete, to Foundation Co., 120 Liberty St., New York City, $1,000,000. Noted Dec. 6.

O., Cleveland — Garage — J. J. Russell, Ulmer Bldg., 1 story, 80 x 115 ft., brick, and steel, 6010 Euclid Ave., to M. J. Buros, 913 Ulmer Bldg. Archts. est. $40,000.

O., Cleveland—Factory—McCauley Storage Battery Co., 1060 St. Clair Ave., 1 story, 35 x 128 ft., brick, Chester Ave., to Mikelson Constr. Co., Discount Bldg. Archts. est. $40,000. Noted Dec. 6.

O., Columbus—Cattle—Dept. Agriculture State Authentics, 1 story, 300 x 500 ft., brick, concrete and steel, to Schirmer O'Hara Co., 2031 Euclid Ave., Cleveland. Archts. est. $150,000. Noted Jan. 10.

O., Mt. Vernon — Factory — C and G Cooper Co., 1 story, 80 x 120 ft., to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $40,000.

O., North Canton — Factory and Dyehouse—Hoover Suction Sweeper Co., 4 story, 80 x 300 ft. factory, and 114 x 115 ft. dyehouse, brick, steel and concrete, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., Cleveland, without competition on cost plus percentage basis. Will construct administration building and foundry later. Archts. est. $1,000,000.

O., Reading (branch of Cincinnati)—Factory—General Match Co., 1 and 2 story, 204 x 224 ft., brick and steel, to Hodges Erwin Co., Blymer Bldg., Cincinnati. Archts. est. $225,000.

Wis., Milwaukee — Garage — E. Liederbach, 4708 Center St., 1 story, 70 x 90 ft., brick, plain foundation, 38th St., to Byrne Bros., 3112 Burleigh St. $40,000.

Tex., Houston — Warehouse — Magnolia Coffee Co., Moffit and Liberty Sts., 3 story, 45 x 67 ft., concrete, to L. V. Miller, 2715 Helena St., $50,000.

Tex., Navasota — Warehouse — W. M. Floyd will build 1 story, 100 x 165 ft., concrete, Holland St., by day labor. $45,000.

Tex., Sweetwater—Garage—G. E. Morris, 2 story, 90 x 100 ft., brick and tile garage, to J. H. Meyers, Sweetwater, $50,000.

Ore., Portland—Warehouse—Northwest Warehouse Co., Portland, Ore. and Seattle, Wash., 10 story, 100 x 100 ft., rein.-con., plain foundation, to Hurley Mason Co., Gasco Bldg., $500,000.

Calif., Los Angeles—Factory—Western Furniture Mfg. Co., 759 North Spring St., 2 story, brick, Western Ave., to R. E. Homann Co., 3720 South Park Ave., $65,000.

Calif., Los Angeles—Warehouse—Austin Co. of California, Bartlett Bldg., will build 1 story or more, 81 x 330 ft., brick and concrete, McKinley Ave., by day labor.

Calif., Oakland—Garage and Sales—F. J. Hurley, 365 28th St., 1 and 2 story and basement, rein.-con., Webster and 20th Sts., to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, $109,000.

Calif., Sacramento—Garage—C. O. and O. W. Huelsman, 1123 43rd St., brick or concrete, I St., to Holdener Constr. Co., 2608 R St., $42,000.

Calif., San Francisco—Garage—J. Pasqualetti, 785 Market St., 2 story, rein.-con., Clement St. near 27th Ave., to Amer. Concrete Co., Humboldt Bank Bldg., $42,000.

Buildings

PROPOSED WORK

Mass., Boston — Club — University Club had plans prepared by Monks & Johnson, 99 Chauncey St., and takes bids in spring 6 story and basement (ultimately 10 story), 135 x 160 ft., rein.-con. and Indiana limestone, wood pile foundation, Trinity Pl. $2,000,000. J. W. Powell, 6 Mt. Vernon Pl., chn. executive com.

N. Y., Albany — School — Albany Law School, 239 State St., plans 96 x 100 ft., brick and steel, plain foundation, State St. $200,000. J. N. Fiero, Eagle St., one of trustees. Engineer and architect not selected.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 17, Newkirk and Coney Island Aves., P. S. 215, Ave. S and East 2nd St., P. S. 114, Ave. A, P. S. 220, 48th St. and 9th Ave., P. S. 219, Pitkin Ave., P. S. 216, Ave. X and East 1st St., also additions to P. S. 128, 81st St., and P. S. 97, Stilwell Ave., all 5 story, here.

N. Y., Jamaica — Hospital — Mary Immaculate Hospital soon takes bids 10 story, brick, steel and stone, plain foundation, Sheldon Ave. $1,500,000. W. J. Boegel, 185 Madison Ave., New York City, archt. and enrg. Noted Dec. 7, 1922.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 19, 237th St. and Crotona Ave., P. S. 81, Delafield Ave., P. S. 83 Rhinelander Ave., P. S. 77 West 172nd St., all 5 story; also De Witt Clinton High School, Jerome Ave.

N. Y., New York — Theatre — Minskey Bros., c/o G. Keister, archt. and engr., 56 West 45th St., having plans prepared brick, steel and stone, plain foundation, East Houston St. near Bway. $500,000.

N. Y., Schuylerville—School—Bd. Educ. takes bids about May 1 for school. $150,000. C. H. Gardinier, 46 North Pearl St., Albany, archt.

N. Y., Troy—Nurses Home—Samaritan Hospital having plans prepared by G. B. Post & Sons, archts. and engrs., 101 Park Ave., New York City, brick and steel, plain foundation, Peoples St. $150,000.

N. J., Pensauken (Merchantville, P. O.)—High School—Bd. Educ., c/o A. Moses, archt., Temple Bldg., Camden, having plans prepared 2 story and basement, 200 x 250 ft., brick and steel, plain foundation, here. $700,000.

Buildings (Continued)

Pa., Easton—Hotel—Thomas, Martin & Kirkpatrick, archts., Otis Bldg., Phila., preparing plans for 10 story, hotel. $1,500,000. Citizens of Easton raised funds for above.

Pa., Johnstown—School—School Bd. having plans prepared by J. E. Adams, Nemo Bldg., 3 story and basement, 110 x 120 ft. concrete, brick and steel. $300,000.

Pa., Lock Haven — Lodge — Fraternal Order of Eagles, Bellefonte Ave., takes bids in spring, 3 story and basement, 100 x 160 ft. brick, East Church St., here. $200,000. Will select architect at once.

Pa., Phila. — Apartment — Rose Constr. Co., North American Bldg., will build 3 story and basement, 45 x 105 ft. and 45 x 123 ft., brick and steel, plain foundation, 51st and Overbrook Sts. $175,000. Work will be done by separate contract.

Pa., Phila. — Municipal Court — City Council appropriated $1,600,000 for 1st unit of Municipal Court Building, 18th, 19th, Vine and Wood Sts.

Pa., Phila. — Recreation — City Council appropriated $150,000 to build George A. Vare Recreation Centre, 26th and Morris Sts.

Pa., Williamsport—Hospital—Williamsport-Memorial Hospital, 798 Louisa Ave., having plans prepared by Stearns & Woodnutt, St. Girard Bldg., Phila., 7 story and basement, 100 x 300 ft., concrete, brick and steel, Rural Ave. $450,000. Plan to ask for bids this spring.

Md., Baltimore—Police—Mayor and City Council, City Hall, plan police building, brick, Lexington and Fallsway Sts. $1,000,000. J. Pennington, 330 North Charles St., archt. Engineer not selected.

W. Va., Huntington — Church — Second Presbyterian Church having plans prepared by L. J. Dean, Foster Bldg., 85 x 90 ft. church. $150,000.

W. Va., Mannington—Election Mar. 4, $200,000 bonds for school.

N. C., Asheville—Municipal—City plans 4 story and basement. $500,000.

N. C., Clayton—School—Voted $150,000 bonds new brick school.

N. C., Rutherfordton—School—Rutherford Co. voted $200,000 bonds for high school for Rutherfordton, Spindale and Hampton sections. W. R. Hill, supt.

N. C., Wake Forest — College — Wake Forest College plans library, law building, new science building and 3 dormitories. W. L. Poteat, pres.

La., New Orleans — School — Orleans Parish School Bd. had plans prepared by E. A. Christy, City Hall Annex, and takes bids in about 2 weeks, Lafayette School, 3 story, 190 x 244 ft. rein.-con. and brick, Belfast and Carrolton Aves.

Tenn., Chattanooga—School and Home—St. Peter & St. Paul Catholic Congregation purchased site for home and school, 400 capacity. $150,000. F. T. Sullivan, 214 East 8th St., pastor.

Ky., Dayton—High School—Bd. Educ. having plans prepared by C. C. & E. A. Weber, 1408 Ingalls Bldg., Cincinnati, O., 2 story and basement. $150,000.

Ky., Louisville—Office—C. J. Stinson, archt. and promoter, Inter-Southern Bldg., preparing plans 8 or 12 story. $200,000 to $300,000.

Ky., Louisville—Theater and Club—J. G. Brown, Brown Hotel, plans theater and club, Bway. To exceed $150,000. Architect not selected.

O., Akron — High School — Election in spring, $650,000 bonds, 2 story and basement, Firestone Park.

O., Cleveland—Apartment S. Gutentag, Ulmer Bldg., plans 3 story and basement, brick, East 88th St. $200,000. Engineer and architect not selected.

O., Cleveland—Apartment—K. H. Smith, 11333 Bellflower Rd., representing company which is having preliminary plans prepared by H. D. Hughes, 920 Citizens Bldg., 4 or 6 story, brick, steel and concrete, Cedar Rd. and Fairmount Blvd. $300,000.

O., Cleveland — Church — St. Lawrence Roman Catholic Church, 3547 East 80th St., having plans prepared by W. C. Jansen, Electric Bldg., 1 story, brick and steel, East 81st St. $150,000.

O., Cleveland — Mausoleum — Knollwood Mausoleum Co., 2014 East 105th St., having plans prepared by A. W. Harris, Discount Bldg., 1 story, granite and marble, Knollwood Cemetery. $200,000.

O., Cleveland—Theatre—Reades Hippodrome Theatre, c/o W. Reade, 112 West 34th St., New York City, plans altering theatre, 720 Euclid Ave., here. $150,000. T. W. Lamb, 644 8th Ave., New York City, archt.

O., Columbus—Club—Columbus Federation Womens Club, Southern Hotel, plans 6 story and basement, 94 x 131 ft., rein.-con. and brick, West Town and Scioto Sts. Plans campaign to raise about $300,000 for project. C. P. Ross, pres. Engineer and architect not selected.

O., Newton Falls—Temple—Newton Falls Masons plan 3 story and basement, 67 x 80 ft., broad St. $150,000.

Mich., Caro—School—Bd. Educ. having plans prepared by Cowles & Mutscheller, Chase Blk., Saginaw, 2 story and basement, 176 x 200 ft. rein.-con., brick and steel, plain foundation. $200,000.

Mich., Detroit — Apartment Hotel — R. Finn, archt., 2631 Woodward Ave., preparing plans 4 story and basement, 50 x 160 ft. rein.-con., brick and steel, plain foundation. $200,000. Owners name withheld.

Mich., Port Huron—School—Bd. Educ. having plans prepared by G. L. Harvey, Huron Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Vaness and 28th Sts. $175,000.

Ill., Chicago — Apartment — Cohen & Weisbaum, c/o J. H. Klafter, archt., 127 North Dearborn St., plans 3 story, 100 x 125 ft., fireproof, Crawford St. near 12th St. $150,000.

Wis., Milwaukee—Lodge—Garfield Lodge K. of P., 326 Grand Ave., plans 3 story, brick and concrete, plain foundation, Grand Ave. $150,000. Engineer and architect not selected.

Wis., Milwaukee—Theatre and Office—Saxe Operating Co., 204 11th St., having preliminary plans prepared by C. W. and G. L. Rapp, 190 North State St., Chicago, 3 story and basement, brick and concrete, plain foundation, North Ave. $500,000.

Wis., Racine — Church — St. Patricks Congregation, c/o W. McCarthy, pastor, 1109 Douglas Ave., having plans prepared by Barry, Byrne & Ryan, 104 South Michigan Ave., Chicago, 2 story, 98 x 100 ft., brick and stone, plain foundation.

Wis., Wauwatosa—Asylum—Milwaukee Co. Bd. Trustees, W. Coffey, mgr., having plans prepared by R. Messmer & Bro., 221 Grand Ave., Milwaukee, 3 story, brick, tile and concrete addition, plain foundation. $350,000.

Neb., Beatrice — High School — W. M. Morton, supt. Pub. Schools, having plans prepared by J. H. Felt & Co., 802 Grand Ave. Temple, Kanas City, Mo., 2 story and basement, 140 x 140 ft. $250,000.

Neb., Kearny—School—Bd. Educ. having plans prepared by Davis & Wilson, 505 Security Bldg., Lincoln, 2 story and basement, rein.-con., brick and stone, $175,000; also addition to Junior High School $75,000, and 2 grade schools $50,000.

Neb., Lincoln—Business—H. Speier plans 4 story and basement, 10th and O Sts. $200,000. Engineer and architect not selected.

Neb., Omaha—Church—J. F. McCarthy, 709 South 28th St., had plans prepared by J. Latenser & Sons, 732 Peters Trust Bldg., 1 story and basement, 80 x 160 ft. brick and stone, 27th and Leavenworth Sts. $250,000.

Mo., Hannibal—Schools—Bd. Educ. soon takes bids Eugene Field Junior High School, etc., $170,000, also Mark Twain Grade School, $110,000, both 2 story and basement, brick and concrete. M. S. Martin, Odd Fellows Bldg., archt. Noted July 12.

Mo., Joplin—Memorial—City takes bids within 3 to 4 months, 2 story, 140 x 187 ft., rein.-con. and brick, plain foundation. $200,000. A. C. and A. S. Michaelis, 324 Miners Bank Bldg., archts. Noted Aug. 2.

Mo., St. Louis—Theatre and Office—F. Wehrenberg, 3114 Illinois Ave., plans 3 or 4 story, 90 x 145 ft., rein.-con., stone and brick, Grand Blvd. and Bates St. $200,000. Private plans.

Ark., North Little Rock—(Branch of Little Rock) Schools—Bd. Educ., Little Rock soon takes bids 2 story, 8 room, on 18th St.; 8 room, brick, on Levy St.; brick school in Park Hill; 4 room brick, Riverside Dist.; 12 room addition to High School; 8 room brick in Rose City. $200,000. A. Burke, Little Rock, archt.

Tex., Dallas — Auditorium — Southern Methodist University having plans prepared by R. H. Hunt & Co., Southwestern Life Bldg., brick, steel and concrete, 3,500 capacity, on Campus. $325,000.

Tex., Houston—Schools—Election soon $3,000,000 bonds, for schools, probably senior high, junior high and elementary school construction. J. M. Black, Municipal Bldg., superv. schools.

Tex., San Antonio—Office—San Antonio Builders Exch., 206 Bedell Bldg., having plans prepared by G. Willis, Chandler Bldg., 8 story and basement, rein.-con., brick and stone, plain foundation, Pecan and St. Marys Sts. $170,000. Noted Jan. 24.

Tex., Tyler—Bank and Office—Citizens Natl. Bank, G. F. Taylor, pres., soon lets contract 6 story and basement, 54 x 103 ft., rein.-con., steel and brick, North Bway. and East Ferguson Sts. $300,000. Lang & Witchell, 300 Amer. Exch. Bank Bldg., Dallas, archts.

Okla., Oklahoma City—Bank and Office—Bank of Oklahoma having plans prepared by Layton, Smith & Forsyth, 906 Baniff Bldg., 14 story, 75 x 140 ft., brick and steel, plain foundation, Robinson St. $1,000,000.

Calif., Alameda—School—City plans to vote on $150,000 or more bonds for fireproof school to replace Lincoln Grammar School which was destroyed by fire.

Calif., Long Beach—Apartment—W. H. Austin, archt., Pacific Southwest Bldg., preparing preliminary plans 12 story, 100 x 250 ft., brick or rein.-con., East Ocean Blvd. Owner's name withheld.

Calif., Long Beach—School—City having plans prepared by H. H. Lockridge, Markwell Bldg., Long Beach, and G. M. Lindsey, Laughlin Bldg., Los Angeles, 16 room addition to Whittier School. To exceed $200,000.

Calif., Los Angeles—Bank—Pacific Natl. Bank having plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., 12 story and basement, 95 x 224 ft., rein.-con. and steel, 9th and Hill Sts. $1,000,000.

Calif., Los Angeles — Church — South Hollywood Presbyterian Church, c/o R. H. Orr, archt., Corporation Bldg., having plans prepared 80 x 100 ft. with basement, brick, Santa Monica Blvd.

Calif., Los Angeles—Hotel—H. Gensler, archt., 208 Hibernian Bldg., preparing plans 4 story and basement, 75 x 100 ft., brick, Olive and 2nd Sts. $150,000. Owner's name withheld.

Calif., Oakland—Office, etc.—See "Industrial Works."

Calif., Sacramento — Church — Grace Methodist Episcopal Church having plans prepared by Woollett & Lamb, Hagelstein Bldg., 120 x 160 ft., rein.-con., J St. $150,000.

N. S., Halifax—Temple—Masonic Order had plans prepared by A. Dumaresque, Halifax, 2 story, stone, Salter and Barrington Sts. $170,000.

Que., Montreal—Office—Royal Bank of Canada, St. James St., having plans prepared 14 story, 144 x 172 ft., Dollard Lane, Notre Dame, St. James and St. Peter Sts. $1,500,000. Private plans.

Ont., Cochrane—Court House—Provincial Government, Parliament Bldgs., Toronto, having plans prepared by F. R. Heakes, provincial archt., Parliament Bldg., Toronto, 2 story and basement, rein.-con., brick and steel, plain foundation. $200,000.

Ont., St. Thomas — High School — Bd. Educ. plans 3 story and basement, 25 room, rein.-con., brick and steel, plain foundation. $275,000. Engineer and architect not selected.

Ont., Toronto — Office — Manufacturers Life Insurance Co. Ltd., Dominion Bank Bldg., having plans prepared by Sproatt & Rolph, 36 North St., 6 story, 45 x 196 ft. stone, Bloor St. $750,000.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, near Danforth Ave. $150,000.

BIDS DESIRED

N. H., Berlin—High School—Mar. 5, by School Com., 3 story and basement, 125 x 150 ft., rein.-con. and brick, plain foundation. $300,000. T. M. James, 3 Park St., Boston, archt. Noted June 14.

N. Y., Brooklyn—Schools—Mar. 11, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., P. S. 180, southeasterly side of 16th Ave. from 56th to 57th Sts., also P. S. 212, southeasterly side Bay 49th St., for Bd. Educ., 500 Park Ave., New York.

N. Y., Lockport—School—Mar. 21, by Bd. Educ., 2 story and basement, 100 x 150 ft., rein.-con. and brick. Clinton St. $300,000. Noted Jan. 11, 1923.

N. Y., Troy—Church, School and Rectory—Mar. 17, by L. G. O'Haire, pastor Sacred Heart Church, 2 story, 120 x 140 ft., brick and steel, plain foundation, Pawling Ave. $350,000. Noted Aug. 23.

N. Y., Troy—School—Mar. 1, by Prudential Com. Bd. Trustees Rensselaer Polytechnic Institute, 3 story and basement,

Buildings (Continued)

70 x 140 ft., steel, brick, limestone, rein.-con. and hollow tile, on campus. $200,000. M. F. Cummings & Son, State Bank Bldg., archts. and engrs.

N. J., North Plainfield (Watchung, P. O.)—High School—Mar. 17, by Bd. Educ. new brick high school, Greenbrook Rd. $250,000. John T. Simpson, 622 Essex Bldg., Newark, archt. and engr. Noted Nov. 22.

N. J., Somerville—Hospital—Mar. 26, by Crow, Lewis & Wick, archts., 200 5th Ave., New York City, 3 story and basement, 43 x 153 ft. and 33 x 41 ft., brick, steel and limestone, plain foundation, Rehill Ave., here, for Somerset Hospital. $300,000. Noted Jan. 3.

Pa., Bradford—High School—Mar. 15, by School Bd., 2 story and basement, 250 x 300 ft. brick and steel, plain foundation. $1,000,000. Laurie & Green, 116 Locust St., Harrisburg, archts.

Pa., Phila.—Church—Mar. 1, by H. D. Dagit & Sons Co., archts., 34 South 17th St., 1 story and basement, 62 x 175 ft. steel, plain foundation, 55th and Cedar Sts., for Church of Transfiguration. $400,000. Noted Jan. 17.

W. Va., Huntington—Bank—Feb. 25, by Meanor & Handloser, archts., Professional Bldg., 14 story, 59 x 90 ft., rein.-con., brick and steel, for Union Bank & Trust Co., 4th Ave. and 9th St. $800,000. Noted Feb. 7.

W. Va., Huntington—Office—Feb. 27, by Coal Exchange Bldg. Co., c/o Meanor & Handloser, archts., Professional Bldg., 14 story, 70 x 124 ft., concrete, brick and steel. $1,000,000. Noted Jan. 10.

N. C., Burlington—Schools—Feb. 25, by Superintendent Bd. Educ., 2 brick schools. $150,000. H. B. Hunter, High Point, archts.

N. C., Durham—Auditorium—Mar. 1, by City Manager, 3 story, 70 x 160 ft., fireproof, concrete foundation. $250,000. Milburn, Heister & Co., Union Savings Bank Bldg., Wash., D. C., archts. Noted Feb. 7.

S. C., Sumter—Schools—Mar. 11, by Bd. School Trustees erecting following, Boys High School, $95,000, Girls High School, $128,000, Primary School $10,000, Negro School $35,000, Wilson, Berryman & Kennedy, Columbia, archts.

Ala., Ensley—Church—Feb. 25, by D. M. Gardener, pastor Ensley Baptist Church, 2 story, 75 x 125 ft., brick and stone, Ave. E and 22nd St. $200,000.

O., Cleveland—Apartment—Elworthy-Helwick Co., 733 Prospect Ave., taking bids 3 story, brick, Eddy Rd. G. A. Ebefing, Hunkin-Conkey Bldg., archt. Noted Jan. 24.

O., Cleveland—Office—Union Square Co., c/o W. F. Lewis, Williamson Bldg., taking bids altering and constructing 1 and 2 story, 17 x 104 ft., brick, steel and concrete addition, Euclid Ave. and East 8th St. $200,000. H. D. Hughes, 920 Citizens Bldg., Noted Sept. 6.

O., Cleveland Heights (Warrensville P. O.)—Apartment—M. Lewin, 11401 Hopkins Ave., and D. Kauffman, 876 Lakeview Rd., Cleveland, taking bids 3 story and basement, 47 x 150 ft., brick, Cornell Rd., here. $175,000. M. Altschild, 5116 Woodland Ave., Cleveland, archt.

O., Columbus—Bank and Office—Mar. 5, by F. L. Packard, archt., 16 East Broad St., 4 story and basement (ultimately 12 story), 91 x 187 ft., rein.-con. and brick, Gay and Pearl Sts., for Columbian Building & Loan Co., 22 East Gay St. $500,000. Noted Jan. 17.

O., Garfield Heights (Cleveland P. O.)—Feb. 25 by Bd. Educ., 2 story and basement, brick, steel and concrete additions. $190,000. W. H. Nicklas, 1900 Euclid Ave., Cleveland, archt. Noted Dec. 25.

Mich., Detroit—Hotel—Feb. 25, by H. Selzer, 1020 Detroit Savings Banks Bldg., 6 story and basement, 33 x 100 ft. brick, steel and stone, plain foundation, Cass and Columbia Aves. $150,000. E. T. Knopke, 416 Book Bldg., archt.

Mich., Detroit—Morgue—Mar. 10, by W. H. Green, secy. Wayne Co., County Bldg., 2 story and basement, 85 x 126 ft. rein.-con., brick and steel, plain foundation, Lafayette Ave. $150,000. A. H. Gould & Son, 602 Empire Bldg., archts. Noted Oct. 25.

Mich., Flint—School—Feb. 27, by A. J. Wildanger, secy. Bd. Trustees Union School Dist., 2 story and basement, 67 x 210 ft. and 92 x 114 ft. rein.-con., brick and steel, plain foundation, Corunna Rd. $250,000. Malsomson & Higginbotham, 1217 Griswold St., Detroitfl archts.

Ill., Evanston—Apartment—R. F. France, 155 North Clark St., Chicago, taking bids 3 story, 98 x 175 ft., fireproof, Sherman and Washington Sts., here. $200,000.

Ill., Evanston—Apartment—A. H. Quitsow, archt., 11 South La Salle St., Chicago, taking bids 3 story and basement, 100 x 168 ft., fireproof, Hinman St. near Kedzie St., here, for C. Pegler, c/o Architect. $200,000.

Wis., Milwaukee—Church—Mar. 1, by Riesch & Hess, archts., 302 West Water St., 2 story, 130 x 138 ft., brick, concrete and stone, 11th and Clarke Sts., for St. Boniface Congregation, H. Stemper, pastor, 1118 Clarke St. $250,000.

Wis., Milwaukee—Clubhouse—A. D. Koch, archt. 120 Wisconsin St., taking bids 2 story, 50 x 200 ft., brick, plain foundation, for Tripoli Country Club, J. D. Bird, pres., 596 Summit Ave. $150,000.

Neb., Falls City—Hotel—Mar. 12, by Falls City Hotel Co., A. J. Weaver, pres., rein.-con., brick and stone. $150,000. J. H. Craddock & Co., 315 South 15th St., Omaha, archts. Noted Jan. 31.

Mo., Hannibal—School—Feb. 28, by Bd. Directors School Dist., Hannibal Trust Bldg., 2 story and basement, 125 x 140 ft., rein.-con., brick and stone, 6th and North Sts. $150,000. M. S. Martin, Odd Fellows Bldg., archt. Noted July 12.

Calif., Los Angeles—Temple—Mar. 3, by Supervs. Los Angeles Co., general contract for Temple of Justice, incl. concrete work, fireproofing, hollow tile, vault construction, brick work, etc. To exceed $150,000. Noted Jan. 24.

Calif., Stockton—Bank and Office—C. H. Snyder, engr., 251 Kearny St., San Francisco, receiving bids 600 tons structural steel for 10 story, Class A, for Stockton Savings & Commercial Bank, here, Bakewell & Brown, 251 Kearny St., San Francisco, archts. Total cost $500,000. Noted Oct. 18.

Ont., Mimico—School—Feb. 28, by Burden & Gouinlock, archts., 101 King St. W., Toronto, 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation. $150,000. Noted Feb. 7.

BIDS RECEIVED

Mass., Watertown—High School—City, 3 story and basement, 125 x 175 ft., Russell Ave., from J. Bowen Co., 184 Dudley St., Boston, $623,790.

Del., Claymont—School—Bd. Educ., general contract 3 story and basement, 60 x 196 ft. and 46 x 60 ft., school, from Bennett-McLaughlin Co., 21 South 17th Pl., Phila., $203,857. Noted Jan. 24.

Md., Baltimore—Church—St. Johns Concordia Evangelical Lutheran Church, c/o F. J. Heldrich, archt., 1156 Longwood St., 1 and 2 story, 71 x 175 ft., stone, Reistertown Rd., and Elgin Ave., from T. Hicks & Son, 106 West Madison St., $150,000. Noted Jan. 24.

O., Mayfield (South Euclid, P. O.)—School—Bd. Educ. Mayfield Rural School Dist., 2 story and basement, brick, steel and concrete, from C. Peterson Co., 4500 Euclid Ave., Cleveland, $174,900. Noted Dec. 20.

Wis., Green Bay—Warehouse—Joannes Bros. Co., 118 South Washington St., 6 story and basement, 44 x 156 ft., brick and concrete, plain foundation, from H. J. Selmer Co., 310 Walnut St., $77,275. Noted Jan. 31.

Calif., Long Beach—Club—Y. W. C. A., Commercial Bldg., 5 story, rein.-con., from W. G. Reed, Brock Bldg., $359,000. Noted Dec. 27.

Calif., Los Angeles—Hall—Los Angeles Co., granite work for Hall of Justice, from McGillivray-Raymond Granite Co., 678 South Utah St., $1,585,735 for exterior, $41,685 interior; Raymond Granite Co., 1350 Palmetto St., $1,725,594 for exterior granite, $34,200 for interior stone work; Furst-Cut Stone Co., Bedford, Ind., $1,380,000 for Indiana limestone. Noted Jan. 24.

Calif., Santa Ana—Jail—Orange Co., 100 x 125 ft., rein.-con., general contract from J. A. Creighton Co., 5617 Hollywood Blvd., Los Angeles, $92,909. Total cost to exceed $150,000. Noted Jan. 24.

CONTRACTS AWARDED

N. Y., Bellaire (Jamaica P. O.)—School—Bd. Educ., 500 Park Ave., New York, P. S. 109, brick, steel and stone, plain foundation, 92nd Ave., here, to Lustbader Constr. Co., 423 Madison Ave., New York, $979,000 deduct $24,000. Noted Feb. 14.

N. Y., Brooklyn—Apartment—P. Schonfeld, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., New York, will build 6 story, brick, steel and stone, plain foundation, Marcy Ave., here, by day labor. $150,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, P. S. 201, brick, steel and concrete, plain foundation, 12th Ave. from 80th to 81st Sts., here, to T. A. Clarke Co., 122 Livingston St., $796,300, deduct $14,000. Noted Feb. 14.

N. Y., Creedmoor (Jamaica P. O.)—School—Bd. Educ., 500 Park Ave., New York, P. S. 33, brick, steel and stone, 222nd St., here, to Frymier & Hanna Co., Inc., 25 West 45th St., $798,900, deduct $15,000. Noted Jan. 31.

N. Y., Jamaica—School—Bd. Educ., 500 Park Ave., New York City, P. S. 116, Wren Pl., to Dooley-Stapleton Co., $767,000, deduct $21,000. Noted Jan. 31.

N. Y., New York—Apartment Hotel—T. C. Du Pont, c/o McKim, Mead & White archts. and engrs., 101 Park Ave., brick, steel and stone, plain foundation, 5th Ave. and 59th St., to Todd, Robertson & Todd, 347 Madison Ave. Archts. est. $18,000,000. Noted Jan. 24.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., altering and constructing 9 story, brick, steel and stone rear addition, plain foundation, East 167th St., to White Constr. Co., 95 Madison Ave. Archts. est. $800,000. Noted Sept. 20.

N. Y., New York—Church—Calvary Methodist Episcopal Church, c/o J. Gregory, archt. and engr., 49 West 45th St., brick, steel and stone, plain foundation, University Ave., to Miller-Reed Co., 103 Park Ave. Archts. est. $400,000.

N. Y., New York—Office, Loft and Store—Forty-Six to Fifty West 29th St. Corp., 5 West 29th St., brick, steel and stone, plain foundation, West 29th St., to Magoba Constr. Co., 103 Park Ave. Archts. est. $500,000.

N. Y., New York—Office—Ninety-Nine Worth St. Corp., 321 Bway., 13 story, 55 x 180 ft., brick, steel and stone, plain foundation, to G. Richard Davis & Co., Inc., 30 East 42nd St. Archts. est. $2,000,000.

N. J., East Orange—Apartment—J. Krieger, 336 Main St., will build 5 story, 160 x 180 ft., brick, steel and stone, plain foundation, South Munn Ave., by day labor. $350,000. E. V. Warren, Essex Bldg., Newark, archt. and engr.

Pa., Lancaster—School—Bd. Administration Bldg., Prince and Chestnut Sts., 3 story and basement, 39 x 210 ft., 42 x 70 ft. and 48 x 93 ft., brick and steel, Walnut and Nevin Sts., general contract to D. S. Warfield, 34th and Grant Sts., $199,717; heating and ventilating to Mechanical Equipment Co., 214 South 12th St., Phila., $53,580. Noted Jan. 31.

Pa., Lancaster—Store—Watt & Shand, 2 East King St., 4 story and basement, 59 x 102 ft., brick and steel, plain foundation, 2 East King St., to H. Wohlsen, Woolworth Bldg. Archts. est. $150,000. Noted Feb. 7.

Pa., Phila.—Sales—J. F. Brown, c/o C. A. Mitchell, Lancaster Bldg., will build 2 story and basement, 141 x 200 ft. brick and steel, 32nd and Arch Sts. $250,000. Work will be done by separate contracts.

Pa., Phila.—Synagogue and Community—Congregation B'Nai Jeshurum, c/o M. Heber, 1011 Chestnut St., 2 story and basement, 140 x 150 ft., brick and steel, plain foundation, 33rd St. between Diamond and Susquehanna Aves., to P. Halbach Contg. Co., 1261 North 26th St. Archts. est. $200,000. Noted Jan. 31.

Pa., Pottsville—Bank and Office—Schuylkill Trust Co., 7 story and basement, 50 x 120 ft. brick and steel, plain foundation, to Clough-Bourne Corp., 101 Park Ave., New York City.

D. C., Wash.—School—Dist. Comrs., Room 509 Dist. Bldg., 20 room addition to Western High School, to Parsons & Hyman, Equitable Bldg., $478,300. Noted Feb. 14.

W. Va., Charleston—Hospital—St. Francis Hospital, 333 Lindley St., 3 story and basement, 90 x 141 ft., to J. H. Phillips, Charleston, $185,000. Noted May 17.

N. C., Statesville—Church—First Presbyterian Church 1 and 2 story, steel, concrete and brick, to J. P. Little & Sons, Realty Bldg., Charlotte, $150,000. Noted Mar. 29.

Fla., Miami Beach—Hotel—J. P. Stoltz, Hotel McAllister, Miami, 14 story hotel, here, to G. B. Langford Constr. Co., Columbia Bldg., Louisville, Ky. To exceed $1,000,000.

Ky., Louisville—Office—Famous Players Lasky Corp., Pioneer St. and Bway., 3 story, 76 x 105 ft., brick, 1st and Chestnut Sts., to R. N. Struck Constr. Co., 101 East Main St., $155,000. Noted Feb. 14.

O., Cleveland—Apartments—L. Duchon, 515 Ulmer Bldg., two 3 story and basement, 28 x 92 ft. and 31 x 92 ft., brick, East 91st St. and Stewart Ave., to I. and B. Dolinsky, 2214 East 83rd St. Archts. est. $150,000. Noted Feb. 14.

O., Cleveland—Apartment—L. Pulin, 10725 Bryant Ave., 3 story and basement, 38 x 160 ft., brick, 785 East 88th St., to M. Kahn, 201 Ulmer Bldg. Archts. est. $150,000. Noted Jan. 24.

O., Columbus—Church—Miller & Reaves archts., 20 South 3rd St., 1 story and basement, 100 x 100 ft., stone, 69 East Mound St., to E. H. Latham, 60 East Broad St., for St. Johns Evangelical Congregation. $150,000. Noted Jan. 17.

Buildings (Continued)

O., Dayton — Church — Holy Family Church, 2 story and basement, brick and stone, plain foundation, 5th and Findlay Sts., to Danis-Hunt Constr. Co., 907 Schwind Bldg., $250,000.

O., Willoughby—High School—Bd. Educ., 2 story and basement, 73 x 93 ft., brick, concrete and metal lumber, to Payne & Beymar, Painesville, $115,000. Noted Jan. 24.

O., Youngstown — Office — Stanley & Scheible, archt., 1301 Wick Bldg., 12 story and basement, 51 x 72 ft., steel, concrete and terra cotta, East Federal St. and Central Sq., to Mellon-Stuart Co., Oliver Bldg., Pittsburgh, for Realty Guarantee & Trust Co. Archts. est. $500,000. Noted Jan. 10.

Ill., Evanston—Apartment—D. G. Wallace, archt., 22 West Monroe St., Chicago, 3 story, 185 x 300 ft., fireproof, Central St., here, to E. Edlund, 1747 Highland Ave., Chicago, for J. N. Lott, c/o architect. Archts. est. $250,000. Noted Sept. 20.

Wis., Kenosha—Temple—Masonic Temple Building Assn., general contract 3 story and basement, brick and concrete, plain foundation, to Hutter Constr. Co., 128 Western St., Fond du Lac. $134,850. Archts. est. $170,000. Noted Jan. 31.

Wis., Milwaukee—School—Zion Lutheran Congregation, W. Matthes, pastor, 818 21st St., 2 story and basement, 90 x 107 ft., brick, tile and concrete, plain foundation, Fond du Lac Ave., to R. Hoeppner, 2602 Kilbourn Ave. Archts. est. $150,000. Noted Jan. 24.

Neb., Lincoln—Store—Gold & Co., 11th and O Sts., 6 story, 75 x 142 ft. terra cotta, 11th and O Sts., to Olson Constr. Co., 205 Chapin Bldg. Noted Jan. 17.

Mo., St. Louis—Apartment—J. W. Kopman, University, 3 story and basement, 100 x 200 ft., rein.-con., brick, tile and marble, Kingsbury Rd., here, to V. Chinberg, 808 Chestnut St. Archts. est. $175,000.

Mo., Webster Groves — Administration, etc.—T. P. Barnett Co., archts., Arcade Bldg., St. Louis, general contract 2 and 3 story and basement administration, study hall, dormitories, dining hall and boiler plant, rein.-con., brick and stone, Lockwood St., here, to Humes-Deal Constr. Co., Century Bldg., St. Louis, for Eden Seminary, 6700 Eastern Ave. Archts. est. $600,000. Noted Nov. 22.

Tex., Beaumont—Church—First Baptist Church, 1 story and basement, 50 x 137 ft., brick and concrete, to C. S. Hudgens, Bomas St., Ft. Worth, $200,000. Noted Nov. 15.

Tex., Houston—Temple—Grand United Order of Odd Fellows, 5 story, rein.-con., steel and brick, Louisiana St. and Prairie Ave., to C. K. Smith, Houston, $247,500.

Ore., Portland — Apartment — Mulberry Investment Co., 2 story and basement, 109 x 152 ft., concrete and stucco, plain foundation, East 12th and Mulberry Sts., to W. Friberg, 3rd and Columbia Sts., $150,000.

Calif., Long Beach—Hotel—Long Beach Hotels Co., 5 story, 160 x 200 ft., rein.-con., to Stradley & Newton, Detwiler Bldg., Los Angeles, $2,000,000. Noted Feb. 7.

Calif., Los Angeles—Apartment—Roland Apartment Co., c/o Walker & Eisen, archts., Pacific Finance Bldg., 100 x 150 ft., approximately 12 story and basement, rein.-con. and brick, Wilshire and Ardmore Sts., to Palmer & Clinton, Monadnock Bldg., San Francisco. To exceed $750,000. Noted Dec. 27.

Calif., Oceanpark (Santa Monica, P. O.) —Casino and Office—Casino Building Co., 4 story, brick, to Lynch-Cannon Eng. Co., 1027 Chapman Bldg., Los Angeles, $300,000.

Calif., Palo Alto—Hotel—Palo Alto Improvement Co., 600 Embarcadero Rd., 3 story and basement, to contain 150 rooms, rein.-con., general contract, to J. Madsen, 619 Fulton St., $106,250.

Calif., San Francisco—Apartment—L. J. Neal, 364 Page St., will build 6 story and basement, rein.-con., O'Farrell St. near Leavenworth St., by day labor. $155,000. E. H. Denke, 1317 Hyde St., archt.

Calif., San Francisco—Office and Store —Marion Realty Co., 1171 Market St., 2 and 4 story and basement, steel and rein.-con., Market St. near 8th St., to A. Arras, 185 Stevenson St., $75,000 each.

Calif., Stockton—Bank and Office—Union Safe Deposit Bank, 30 North San Joaquin St., 1 story and basement, Class A, general contract to J. A. Allen, 111 Kensington Way, $128,600. Noted Jan. 31.

Federal Government Work

PROPOSED WORK

Pa., Phila. — Hospital — Spec. 4949 — Bureau Yards & Docks, Navy Dept., Wash., D. C., soon opens bids permanent foundations for frame buildings at hospital, here.

Va., Hampton Roads—Breakwater Pier—Spec. 4944—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon opens bids, repairs to north breakwater pier at Submarine Base, here. Noted Jan. 24.

Ky., Addison—Cement—U. S. Engineer, P. O. Box 72, Louisville, opens bids about April 1, 25,000 bbl. cement for Dam 45, f.o.b. Addison. Noted Jan. 10.

BIDS DESIRED

D. C., Wash.—Reservoirs—Mar. 21, at U. S. Engineer office, 250 Old Land Office Bldg., Wash., D. C., 1st and 2nd high reservoirs for Dist. of Columbia water supply; adv. E. N.-R. Feb. 21.

Tenn., Memphis—Sand Pump, Boiler and Boiler Feed Pump—Mar. 14, at office Mississippi River Comn., 1st and 2nd Dists., Room 1006 McCall Bldg., one centrifugal sand pump and engine, also one horizontal boiler and one boiler feed pump; adv. E. N.-R. Feb. 21.

Ky., Pikesville—Hospital—March 11, by U. S. Veterans Bureau Room 791, Wash., D. C., constructing complete one hospital building, one double officers quarters, brick and frame, one brick and frame well house, one steel water tank and one drilled well at U. S. Veterans Hospital.

Ore., Klamath Falls—Canal—Mar. 17, by Bureau of Recl., Klamath Falls, constructing 15 mi. North Canal, Langell Valley Div. on Klamath Project, Oregon-California, 125,000 cu.yd. excav., 25 mi. east of here in Twps. 39 and 40 south; adv. E. N. R., Feb. 21.

BIDS RECEIVED

Md., Baltimore—Roof—Treasury Dept. Superv. Archts. Office, Wash., D. C., new roof on Court House, here, from W. L. Morrison, Metropolitan Bank Bldg., Wash., D. C., $5,100 for Drawing 317, $6,700 for Drawing 318. Noted Jan. 24.

Tenn., Memphis — Post Office — Treas. Dept., Wash., D. C., post office here, from A. Blair, 11 South Lawrence St., Montgomery, Ala., $99,831. Noted Jan. 10.

Tex., Ft. Worth—Mooring Mast—Spec. 4930—Bureau Yards & Docks, Navy Dept., Wash., D. C., erecting mooring mast at U. S. Helium Production Plant, here, from Newport Contg. & Eng. Co., Newport News, Va., $14,700. Noted Jan. 31.

CONTRACTS AWARDED

N. C., Cape Lookout — Boat House, Quarters — Spec. 4906 — Bureau Yards & Docks, Navy Dept., Wash., D. C., boat house, remodeling quarters and concrete retaining walls at Naval Radio Compass Sta., here, to H. M. Lucas, 115 Bruce St., Portsmouth, Va., $9,400, (60 days). Noted Feb. 14.

Ga., Augusta—Hospital—Spec. 4922—F. T. Hines, dir. U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., remodeling buildings incl. plumbing, lighting and heating to King Lumber Co., Charlottesville, Va., $78,000, plumbing and heating to C. J. Gleason, 1526 Wilton Way, $130,000, electric work to D. C. Barnett, St. Louis, Mo., $10,707. Noted Feb. 7.

Ind., Leavenworth—Lumber—U. S. Engineer, P. O. Box 72, Louisville, Ky., 80,000 ft. yellow pine for Dam 44, Ohio River, to T. E. Rechtin, 7th and Ingle Sts., Evansville, $45.75 per M. Noted Jan. 31.

Wis., Milwaukee—Scow and Barge—U. S. Engineer, Federal Bldg., 2 steel dump scows and one steel barge to Sturgeon Bay Dry Dock Co., Sturgeon Bay, $47,500. Noted Jan. 24.

CONDUIT—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Water Supply, Municipal Bldg., Jan. 22, for construction of Clove Conduit of Catskill Aqueduct, Richmond Boro., Contr. 199, (A) P. F. Connolly Co., 2029 East 102d St., Cleveland, O., (awarded contract); (B) Beaver Eng. & Contg. Co., 51 Chambers St., New York; (C) P. McGovern, Inc., 50 East 42d St., New York. The unit bids were as follows:

	A	B	C
52,000 cu.yd. earth excavation and refilling	$3.00	$3.00	$2.40
4,000 cu.yd. rock excavation	2.00	2.00	2.40
50 M.ft. b.m. timber and lumber	70.00	25.00	70.00
16,600 lin.ft. 66-in. steel pipe, ¼-in. plate, lap-joints	27.40	29.93	32.30
35 ton cast-iron pipe, straight hub-and-spigot	90.00	100.00	80.00
40 ton cast-iron hub-and-spigot specials	150.00	200.00	160.00
15 ton cast-iron flanged pipe and specials	200.00	300.00	225.00
20 ton cast-iron valve-boxes, manhole heads and covers	150.00	100.00	130.00
18,000 lb. steel castings	.25	.25	.25
100,000 lb. caring for and setting metal-work furnished by the city	.015	.01	.02
10,000 lb. structural and reinforcing steel	.10	.10	.07
5,000 lb. miscellaneous cast iron, wrought iron and steel	.10	.20	.15
500 bbl. portland cement	3.00	3.50	2.75
100 cu.yd. concrete masonry as cradles for sewers and drains	10.00	8.00	12.00
300 cu.yd. brick and concrete masonry	20.00	25.00	27.50
70 changing water services 2-in. and smaller	7.00	5.00	10.00
50 cu.yd. crushed stone and gravel for drains and ballast	5.00	3.50	4.00
3,500 lin.ft. vitrified pipe, 3 to 8 in. in diameter	.70	.50	.70
300 lin.ft. vitrified pipe, 9 to 20 in. in diameter	1.50	1.00	1.75
50 cu.yd. rubble paving in mortar	7.00	10.00	5.00
10,000 sq.yd. bituminous concrete pavement	1.75	2.00	3.00
700 sq.yd. bituminous macadam pavement	1.50	2.00	3.00
1,500 sq.yd. macadam pavement	1.00	.50	2.50
Extended totals	$677,530	$722,863	$748,005

BRIDGE—ST. LOUIS, MO.

Following are lowest three bids opened by Bd. Pub. Serv., Jan. 22, for concrete bridge over River Des Peres on Gravois Ave., (A) H. A. Henske, 1504 St. Louis Ave.; (B) Higgins-Wall-Dyer Co., International Life Bldg.; (C) T. F. Hogan, Melbourne Hotel. The unit bids were as follows:

	A	B	C
5,130 cu.ft. removing old masonry	$0.085	$0.10	$0.15
Removing pavements, curbs, walks (lump sum)	1,216.00	1,325.00	7,500.00
4,630 cu.yd. grading	.90	2.25	1.25
24,630 cu.ft. excavation, class A	.40	.10	.30
6,810 cu.ft. excavation, class B	.12	.05	.07
1,840 cu.ft. excavation, class C	.90	.40	.40
Drainage and bank protection (lump sum)	562.50	1,250.00	750.00
36,545 cu.ft. concrete, class A	.70	.50	.68
23,025 cu.yd. concrete, class B	.65	.98	.64
9,039 cu.yd. concrete, class C	.60	1.10	.50
398,200 lb. steel reinforcement	.054	.03⅝	.045
10,700 sq.ft. surface finish	.06	.10	.05
Expansion joints and waterproofings (lump sum)	1,100.00	1,800.00	500.00
Brick railing (lump sum)	2,250.00	4,148.00	3,600.00
Filling and shaping subgrade (lump sum)	1,350.00	1,000.00	300.00
465 lin.ft. new curbing	1.40	2.00	3.00
315 lin.ft. resetting old curbing	.68	.50	1.00
5,500 cu.ft. cinder concrete	.245	.28	.40
7,120 cu.ft. roadway foundation	.33	.50	.50
18,650 sq.ft. brick paving	.25	.20	.35
Electric conduits and pole foundation (lump sum)	787.50	1,800.00	750.00
Concrete lamp posts (lump sum)	400.00	1,000.00	600.00
1,925 sq.ft. concrete walks, class A	.28	.22	.34
3,970 sq.ft. concrete walks, class B	.225	.221	.30
Extended totals	$104,756	$105,178	$108,806

Unclassified

PROPOSED WORK

River Wall, etc.—Rensselaer, N. Y.—Grasselli Chemical Co. having surveys made extending river wall, pier, etc. in front of property on Riverside Ave., Hudson River. Work involves 900 cu.yd. rein.-con. $45,000. Private plans. Will mature in spring.

Unclassified (Continued)

Elimination of Grade Crossings—Tonawanda, N. Y.—See "Streets and Roads."

Pier, etc.—Asbury Park, N. J.—City plans alterations and additions to buildings on beach front, incl. extension to pier. $84,000. N. Rogers, Asbury Park, engr.

Coal Plant—Morrisville, Pa.—Fattersall Co., 147 North Warren St., Trenton, N. J., plans 30,000 ton coal plant. $100,000.

Carbarns — Phila., Pa. — Phila. Rapid Transit Co., 810 Dauphin St., plans carbarns, Johnson and 20th Sts. $250,000.

Parks—Louisville, Ky.—Election in November $750,000 bonds for improvements and extensions to city parks.

Gas Main Extension — Paducah, Ky. — Paducah Electric Co. plans extension to gas mains, etc. To exceed $25,000. Stone & Webster, 147 Milk St., Boston, Mass., engrs.

Transmission Line—Terre Haute, Ind.—Indiana Power Co., 413 Main St., Vincennes, plans extensions to electric transmission lines in Wabash River Valley. C. E. Taylor, c/o owner, engr. To exceed $25,000.

Transmission Line — Wisconsin — Luck Light & Power Co., Luck, plans high power transmission line from Luck to Frederic. $25,000. Engineer not selected.

Pipe Line—Texas—W. A. Letson, Lubbock, plans 12 in. gas pipeline from Amarillo to Lubbock, intersecting laterals will be laid serving Canyon, Plainview, etc. $40,000. Private plans.

Pipeline — Texas — Milam County Pipe Line Co., Rockdale, making surveys for pipeline from Isaac Switch to Minerva-Rockdale Oil Fields. $45,000.

Pipe Line — Texas — See "Industrial Works" under Panhandle City.

Lighting System — Beaumont, Tex. — Neches Co. making plans electric lighting system on Beaumont-Port Arthur Highway. $40,000. P. E. McChesney, Beaumont, engr.

Seawall, etc. — Corpus Christi, Tex. — State and Nueces Co. sold $2,000,000 bonds for seawall and breakwater.

Park Improvements—Dallas, Tex.—North Texas Trust Co., c/o C. S. Mitchell, 211 Magnolia Bldg., had plans prepared park improvements in Kessler Park addition. $25,000-$30,000. Koch & Fowler, Central Bank Bldg., engrs.

Wharf—Avalon, Calif.—City had preliminary plans prepared addition to wharf, 20 x 150 ft. with two ells. $150,000.

Flood Control—Stockton, Calif.—Plans to vote on $1,600,000 bonds for flood control project. W. B. Hogan, city engr.

Bulkheads — Long Beach, Calif. — City having plans prepared and will probably vote on over $1,000,000 bonds for new bulkheads, incl. dredging, etc. R. D. Van Alstine, city engr.

Power Line — Ontario — Ontario Hydro Comn., London, plans to extend power line from Essex to Elmstead and install two new switches at Essex transformer. $50,000. E. R. Lawlor, University Ave., Toronto, engr.

Electric Light and Telephone Systems—Fort William, Ont.—Voted $20,000 for electric lighting system and $100,000 for additions and extensions to telephone system. A. McNaughton, city clk.

BIDS DESIRED

Sanitary Work, etc.—Binghamton, N. Y. —Mar. 12, by State Hospital Comn., Albany, sanitary work, renewal of water line and sanitary work, plumbing and sewage disposal, Plymouth Rock Farm Cottage, Binghamton State Hospital. S. W. Jones, Albany, state archt.; adv. E. N.-R. Feb. 21.

Coal Bunker, Scale House, etc.—Hornig, Pa.—Crocelius & Phillips, 1308 Hanna Bldg., Cleveland, O., engrs., taking bids 13 x 128 ft. coal bunkers and 14 x 20 ft. scale house, timber and corrugated metal, also timber trestle, here, for Pittsburgh Terminal Coal Co., Wabash Bldg., Pittsburgh.

Dock — Mingo Junction, O. — Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., taking bids and opens same about Mar. 5, coke unloading dock with concrete ice piers, on Ohio River, 50,000 cu.yd. dredging, 75,000 cu.yd. concrete. To exceed $500,000. Noted Oct. 4.

Cement — Madison, Wis. — Taking bids 10,000 bbl. cement f.o.b. here, to be delivered during June, July, August, September and October. E. E. Parker, City Hall, engr.

Street Markers—Ft. Worth, Tex.—City Comn. taking bids 12,000 street name markers, $25,000. D. L. Lewis, city engr.

BIDS RECEIVED

Borings, etc.—New York—Transit Comn., 49 Lafayette St., New York City, land and river borings along North Jane St., Jackson Ave., Manhattan Ave., Roebling St., Bedford Ave. and in Newtown Creek, in Queens and Brooklyn Boros, Agreement "CW"-Route 70, from P. J. Haley, 25 Church St., New York City, $2.70, $0.90, $2.50, $0.70, $6.45, $0.90, $6.45. Noted Feb. 7.

Shaft Superstructure—New York, N. Y.—Transit Comn., 49 Lafayette St., superstructure over ventilating shaft and 2 passageways between tubes of 14th St.-Eastern Rapid Transit R.R., Route 8, Sect. 3, Agreement "CX," from B. T. and J. J. Mack, Inc., 160 Bway., $9,995. Noted Feb. 7.

Electrolier System—Bakersfield, Calif.—Installing electrolier lighting system in portion Chester Ave., etc., from Robinson Electric Co., 1162 Bway., Fresno, $26,600. Noted Jan. 31.

CONTRACTS AWARDED

Heating and Ventilating Apparatus — Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York, heating and ventilating apparatus in P. S. 196, Bushwick Ave., here, to Almirall & Co., Inc., 1 Dominick St., New York City, $111,119. Noted Feb. 7.

Heating and Ventilating Apparatus—New York, N. Y.—Bd. Educ., 500 Park Ave., heating and ventilating apparatus in P. S. 92, West 212th St., and in P. S. 78, Hicks St., to Austin Eng. Co., 124 West 42nd St., $100,772 and $101,468 respectively; in George Washington High School, Audubon Ave., and in P. S. 75, Faile St., to Almirall & Co., Inc., 1 Dominick St., $287,425 and $111,633 respectively. Noted Jan. 31 and Feb. 7.

Electric Signal, etc.—Rotterdam Junction, N. Y.—New York Central R.R., Grand Central Terminal, New York City, electric signal and switch interlocking apparatus, here, to General Ry. Signal Co., Terminal of West Ave., Rochester, to exceed $100,000.

Oil Tank—Baltimore, Md.—Consolidated Gas, Electric Light & Power Co., Lexington Bldg., will build 2 m.g. oil tank, by day labor. Private plans. Noted Jan. 17.

Dock—Ashland, Wis.—Minneapolis St. Paul & Saulte Ste. Marie Rd., 1st Natl.-Soo Line Bldg., Minneapolis, Minn., 900 ft. extension to dock, 150 ft. wide, to contain 150 ore pockets, involves driving 7,000 piles and pouring 12,000 yd. concrete, to Whitney Bros., North 6th St. and Baxter St., Superior, $750,000. Noted Feb. 7.

Wharf—Houston, Tex.—Harris County Navigation Dist., concrete wharf and grain carrier house footings, to Doullet & Williams, Inc., 2nd Natl. Bank Bldg., $176,900. Noted Jan. 17.

Material and Equipment

PROPOSED WORK

Dredge and Scows — Pittsburgh, Pa. — General Contg. Co., Columbia Bldg., plans to purchase 1 steel hull dipper dredge and 2 steel hull scows, $40,000 and $25,000 respectively.

Road Equipment — California — L. R. Smith, purch. agt., State Hy. Comn., Sacramento, plans to purchase ten type B and twenty-four type A graders, with 8 ft. blades, engine steer and hitch complete with controls, etc., weighing not less than 4,000 lbs.

Road Oil, Stone, etc. — London, Ont. — Soon takes bids 150,000 gal. road oil, broken stone, asphalt, cement, and all c.i. castings required for year. $150,000. W. A. Near, city engr.

BIDS DESIRED

Asphalt Binder Mixture, etc. — New York, N. Y.—Feb. 25, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 400 cu. yd. asphalt binder mixture and 600 cu.yd. asphalt wearing surface mixture.

Granite Paving Blocks, etc.—New York, N. Y.—Feb. 28, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 50,000 new special 5 in. granite paving blocks, 500 tons asphaltic joint filler, 30,000 gal. gasoline, 4,000 cu.yd. coarse aggregate for concrete, 3,000 tons inorganic dust, 3,000 cu.yd. concrete and paving sand, 6,000 cu.yd. binder stone and one 8 ton tandem steam roller.

Rip Rap and Steel—New York, N. Y.—Feb. 25, by Dept. Purch., Municipal Bldg., rip rap to Dept. of Plant and Structures, and corrugated sheet steel to Dept. Street Cleaning. E. W. Buckley, comr.

Crushed Stone, etc.—Freehold, N. J.—Mar 5, by C. E. Cole, clk. Bd. Freeholders Monmouth Co., crushed stone, gravel, slag, 100,000 gal. bituminous surface dressing, and 300,000 gal. binder. G. A. Allen, Jr., 60 Broad St., Red Bank, engr.

Crane — Pittsburgh, Pa. — Bessemer & Lake Erie R.R., Carnegie Bldg., taking bids one 25 ton locomotive crane.

Crane—Pittsburgh, Pa.—Carnegie Steel Co., Carnegie Bldg., taking bids one 20 ton locomotive crane.

Crane—Charleston, W. Va.—E. H. Morford & Co., Moore Bldg., taking bids locomotive crane, 12-20 ton capacity.

Jaw Crusher—Woodward, Ala.—Woodward Iron Co. in market for 30 x 42 in. jaw crusher.

Road Oil—Adrian, Mich.—Mar. 3, by G. P. Love, city clk., 60,000 gal. road oil; adv. E. N.-R. Feb. 21.

Motor Truck—Green Bay, Wis.—Bd. Pub. Wks., W. L. Kerr, secy., taking bids 1½ ton motor truck equipped with water tight garbage body and hydraulic hoist.

Road Oil—La Crosse, Wis.—Feb. 26, by J. Hintgen, comr. La Crosse Co., 450,000 gal. road oil.

Truck, etc.—Kenosha, Wis.—Feb. 26, by C. M. Osborn, city mgr., 1½ ton truck equipped with 2 yd. dump body; one 4½ yd. drop frame trailer; one ½ bag concrete mixer; one motor driven street sweeper.

Tarvia—Two Rivers, Wis.—Feb. 25, by Bd. Pub. Wks., H. C. Gowran, chn., 30,000 gal. tarvia "B" or equal.

Lumber, Piling, etc.—Guthrie Center, Ia. —Feb. 26, by Guthrie Co., 172,800 ft. lumber, 6,000 ft. piling and 7,470 ft. bridge caps. A. McKeel, Guthrie Center, engr.

Lumber, Piling, etc.—Red Oak, Ia.—Feb. 28, by Comrs. Montgomery Co., 220,000 ft. lumber, 6,070 ft. piling, 1,000 bbl. cement, 500 tons sand, 500 tons crushed stone, 1,000 tons concrete mixture, 40,000 lb. reinforcing steel, 1,200 ft. concrete pipe, 700 ft. corrugated culvert pipe. P. A. Michel, Red Oak, engr.

Pipe—Okla., Tulsa—Kettle Creek Refining Co., Box 2011, in market for 16 mi. 6-in., 14 mi. 4-in., and 5 mi. 3-in. pipe.

Crane — San Francisco, Calif. — Pacific Gas & Electric Co., 445 Sutter St., taking bids one 25 ton crane.

Supplies—Hamilton, Ont.—Mar. 1, by T. W. Jutten, mayor, City Hall, broken stone and screenings, limestone dust, sand, asphalt, gravel, lime, 8- to 30-in. vitr. and concrete sewer pipe, ordinary and specials castings, c.i. pipe, gate valves, extension boxes, concrete and garbage duck covers, brass brooms, sectional sweepers, ordinary and special bronze and brass castings for Waterworks Dept. $200,000. W. L. McFaul, city engr.

Asphalt, Cement, etc.—Kingston, Ont.—Feb. 27, by H. S. Dick, city engr., asphalt, portland cement, limestone dust, road oil, and vitr. tile sewer pipe. $100,000.

Brick, Castings, etc. — Ottawa, Ont. — Feb. 26, by Bd. Control, furnishing brick, castings, cement, draughting supplies, plank and cedar, sand, vitr. clay or concrete sewer pipe. A. F. Macallum, comr. pub. wks.

Brass Taps, Pipe, etc.—Ottawa, Ont.—Taking bids brass taps, cock fittings, c.i. pipe, 6 in. up, lead pipe, water meters, pig lead, service posts, special castings. $150,000. A. F. Macallum, city engr.

BIDS RECEIVED

Sand Grits—New York, N. Y.—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Feb. 14, 7,500 cu.yd. sand grits, from Ames Building Material Co., 3437 Kingsbridge Rd., $16,800. Noted Feb. 7.

CONTRACTS AWARDED

Culvert Pipe, Lumber, etc.—Clinton, Ia. —Clinton Co., 5,928 ft. 12- to 36-in. corrugated culvert pipe, to Klauer Mfg. Co., 9th and Washington Sts., Dubuque, $5,215; 75,000 ft. 3 x 12 x 16-in. stand sawed Douglas Fir lumber, to Wheeler Lumber, Bridge & Supply Co., 200 South West 9th St., Des Moines, $3,113. Noted Jan. 31.

Lumber and Piling—Harlan, Ia.—Shelby Co., 168,460 ft. lumber and 14,000 ft cypress piling, to Wickham Bridge & Pipe Co., 27 South 19th St., Council Bluffs $12,623.

Lumber, Steel, etc.—Iowa City, Ia.—Johnson Co. 192,840 ft. lumber to Wheeler Lumber, Bridge & Supply Co., 200 South West 9th St., Des Moines, $8,011; 40,000 lb. reinforcing steel, to Clinton Bridge Wks., 101 South 2nd St., Clinton, $1,324. Noted Jan. 31.

Lumber—Tipton, Ia.—Cedar Co., 244,800 ft. lumber, fir, to W. W. Saylor, Waverly $10,276. Noted Jan. 1.

Vitrified Pipe, Brick, Pine, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., 400 tons special sewer castings, to Crown Wks. Co., 1229 Tyler St., $67.50 per ton for manhole rings and covers, $68.50 per ton for catch-basin rings and covers; 190,000 vitr. paving brick for sewer construction, to A. C. Ochs Co., 204 South 9th St., $20 per M.; sewer pipe and segment blocks, quantity not stated, for 1924 season, to Red Wing Sewer Pipe Co., Red Wing; 185,000 ft. No. 1 rough Norway pine, to J. Neils Lumber Co., 932 Lumber Exch. $45 per M. for 3 x 12 and $34 per M. for 2 x 8 (small part of order); Virginia & Rainy Lake Co., 1030 Lumber Exch., $48.50 for 3 x 12 and $34 per M. for 2 x 8. Noted Jan. 31.